

EOS-1 Ds Mark III DIGITAL

WHITE PAPER



THE CANON EOS-1Ds MARK III CAMERA:

EOS REBORN

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I. OVERVIEW

The Canon EOS-1Ds Mark III is a new, top-of-the-line, professional DSLR autofocus camera with a 35mm full-frame, 21.1-megapixel CMOS sensor. It was developed in parallel with the totally new EOS-1D Mark III, so the cameras are similar in many respects. For example, the operation procedure, LCD monitor, menu functions, and playback functions are all the same as those of the EOS-1D Mark III.

The main differences reside in the 35mm full-frame sensor and related features of the EOS-1Ds Mark III, such as the viewfinder optics and the top cover, although other distinctions will be made in this white paper.

EOS-1Ds Mark III: Specifications Different from EOS-1D Mark III

	Feature	EOS-1Ds Mark III	EOS-1D Mark III
Sensor size		35mm full-frame	APS-H size
Effective pixels		Approx. 21.10 megapixels	Approx. 10.10 megapixels
Self Cleaning Sen	sor Unit	Dedicated to full-frame sensor	Dedicated to APS-H size
	Large	5616 x 3744 (Approx. 21.0 megapixels)	3888 x 2592 (Approx. 10.1 megapixels)
	Medium1	4992 x 3328 (Approx. 16.6 megapixels)	3456 x 2304 (Approx. 8.0 megapixels)
Pixels recorded	Medium2	4080 x 2720 (Approx. 11.0 megapixels)	2816 x 1880 (Approx. 5.3 megapixels)
Pixels recorded	Small	2784 x 1856 (Approx. 5.2 megapixels)	1936 x 1288 (Approx. 2.5 megapixels)
	RAW	5616 x 3744 (Approx. 21.0 megapixels)	3888 x 2592 (Approx. 10.1 megapixels)
	sRAW	2784 x 1856 (Approx. 5.2 megapixels)	1936 x 1288 (Approx. 2.5 megapixels)
UDMA compatibil writing)	ity (High-speed	Yes	
ISO speed		100-1600 L:50, H:3200	100-3200 L:50, H:6400
Viewfinder	Magnification (Angle of view)	Approx. 0.76x (Approx. 35°)	Approx. 0.76x (Approx. 28.3°)
Drive modes	High-speed (H)	Approx. 5 fps	Approx. 10 fps
Max. burst	Large	56 shot	110 shot
Max. Duist	RAW	12 shot	30 shot
Metering range	Partial	Approx. 8.5%	Approx. 13.5%
Metering range	Spot	Approx. 2.4%	Approx. 3.8%
Flash sync speed		1/250 sec.	1/300 sec.
External flash fun	ction settings	Yes (Increased)	Yes
PictBridge		Yes (Increased)	Yes
Battery life (Normal/Low temperature)		1,800 shot / 1,400 shot	2,200 shot / 1,700 shot
Dimensions (W x H x D)		6.1 x 6.3 x 3.1 in. 156 x 159.6 x 79.9mm	6.1 x 6.2 x 3.1 in. 156 x 156.6 x 79.9mm
Weight (Body only)	42.7oz./1,210g	40.7oz./1,155g

^{*} External flash function settings: Zoom and wireless settings added.

When the EOS-1Ds Mark III is compared to the camera it succeeds, the EOS-1Ds Mark II, the differences are much more substantial. The new camera has higher resolution, better image quality (from 14-bit D/A conversion vs. 12-bit, and DIGIC III vs. DIGIC II),

I. OVERVIEW

^{*} PictBridge: Printing effects are now reflected in the image displayed on the upper left. Tilt correction also added.

a higher framing rate and larger burst capacity, more precise AF, professional Live View Function, a 3.0-in. LCD monitor (larger images and larger, more legible font size), the EOS Integrated Cleaning System, a more convenient operating system, as well as many other features summarized in the next section.

The EOS-1Ds Mark III is intended, most obviously, for professional studio photographers and landscape photographers, but its 5 fps speed will attract sports, fashion and high-end wedding shooters, too. It is a complete imaging tool, with a host of extraordinary features shared with EOS-1D Mark III and, indeed, the entire Canon EOS System, meaning that almost any photographer for whom ultimate image quality is the benchmark for camera selection will find the EOS-1Ds Mark III deeply appealing. It is a most worthy successor to the EOS-1Ds Mark II.

I. OVERVIEW

II. SUMMARY OF DIFFERENCES FROM THE EOS-1D MARK III

- Large size, single-plate, 36 mm x 24 mm (full-frame) CMOS sensor
- Low-noise, wide ISO 100-1600 range* (ISO extension L: 50, H: 3200)
- Compatible with UDMA (Ultra Direct Memory Access) for high-speed writing to the CF card
- 100% viewfinder coverage, 0.76x viewfinder magnification (approximately 35° angle of view), approximately 20mm eyepoint, Ec-C IV standard screen
- Zoom and wireless flash settings added to the Speedlite settings and Speedlite Custom Functions settable using the camera with 580EX II attached
- New PictBridge direct printing effects reflected in the displayed image and image tilt correction now provided
- The EOS-1Ds Mark III is 0.12 in./3mm taller and 1.76 oz./50g heavier than the EOS-1D Mark III

^{*}Standard output sensitivity. Recommended exposure index.

III. SUMMARY OF DIFFERENCES FROM THE EOS-1Ds MARK II

Image Quality

- 21.1 effective megapixels for ultra-fine resolution and top image quality
- Dual "DIGIC III" Image Processor with DDR-SDRAM buffer for fine-detail and natural color reproduction with high-speed processing of very large files
- Picture Styles for image control according to the preferences and intentions of the photographer
- RAW, sRAW (Small RAW), RAW+JPEG, sRAW+JPEG simultaneous recording
- 5 custom WB settings can be registered
- 6 preset settings, color temperature specification, and personal WB
- WB correction and WB bracketing provided
- Noise reduction provided for long exposures
- Noise reduction provided for high ISO speed images
- Highlight Tone Priority

Speed

- Maximum speed approximately 5 fps continuous shooting (One-Shot AF, AI SERVO AF, switchable between H [High-speed continuous] and L [Low-speed continuous])
- Maximum burst, JPEG Large, approximately 56 shots; RAW, approximately 12 shots
- Fast startup time of approximately 0.2 sec.
- Shutter release time lag approximately 55 msec.; viewfinder blackout time approximately 80 msec. (with C.Fn IV-13-1, approximately 40 msec. at max. aperture)
- Compatible with SDHC (SD High-Capacity) memory cards, plus 2GB and higher capacity
 CF and SD memory cards
- Compatible with USB 2.0 Hi-Speed image transfer to personal computer

High Performance

- New Area AF sensor with 19 high-precision, cross-type AF points + 26 Assist AF points
- 19 points: Cross-type focusing with f/2.8 or faster lenses
- 26 points: Horizontal line-sensitive focusing with f/5.6 or faster lenses
- Center AF point: Horizontal line-sensitive focusing with f/8 or faster lenses
- AF points can be set to the inner or outer 9 AF points
- AF microadjustment provided (fine adjustment of AF point of focus)
- For AI SERVO AF, the AF operation characteristics, AF point selection characteristics, and focus-tracking sensitivity can be adjusted
- During manual AF point selection, AF point area is expandable
- Switch to registered AF point is possible (Home Position function)
- High-magnification viewfinder and improved focusing screen with 100% viewfinder coverage,
 0.76x viewfinder magnification (approx. 35° angle of view), approx. 20mm eyepoint
- Ec-C IV standard screen and compatible with Ec-type focusing screens used by EOS-1
- EOS Integrated Cleaning System with Self Cleaning Sensor Unit, Dust Delete Data acquisition and appending enabled

- 63-zone metering sensor for more stable ambient and flash metering
- Remote Live View Function and (camera) Live View Function provided with displayable exposure simulation and aspect ratio information
- Large and very bright 3.0-in. LCD monitor with 230,000 pixels and wide angle of view
- High-capacity lithium-ion battery with battery check detection and battery information viewable with the menu
- Compact and lightweight battery helps make the EOS-1Ds Mark III 5.82 oz./165g lighter and easier to carry
- Flexible recording options: automatic switching of recording media, separate recordings to media, identical recordings to multiple media
- Silent mode (for one image) provided
- ISO speed always displayed, and ISO speed safety shift provided
- Standard EOS Digital camera control operation incorporated with SET button and Multi-controller provided for refined convenience
- Displayable camera settings and better image information during playback, including histogram display, jump display, error code display, and shooting functions display (C.Fn II-9)

Reliability

- Shutter durability of approximately 300,000 cycles
- Chassis, mirror box, and exterior covers made of magnesium alloy for a lightweight and highly rigid body
- Maintains dust- and water-resistance of Speedlite 580EX II
- With the 580EX II and a dust- and water-resistant lens attached, entire camera is resistant to dust and water

Customization

- 57 Custom Functions in four groups
- Personal Functions consolidated with Custom Function
- Custom Function settings can be registered and called up
- My Menu can be registered and displayed at the start
- Camera settings can be saved and read
- Camera's basic settings can be registered and applied

EOS System

- External recording media and GPS unit usable (via WFT-E2A)
- Speedlite settings and Speedlite Custom Functions settable with the camera (with 580EX II attached)
- Image encryption/decryption possible (with OSK-E3)
- Direct image transfer enabled
- Camera direct printing (PictBridge) improved and DPOF print ordering provided

Specifications Comparison of EOS-1Ds Mark III and EOS-1Ds Mark II

Coverage [Approx.%] 100	Item/Camera				EOS-1Ds Mark III	EOS-1Ds Mark II	
Image sensor size lemi 3-6 x 2 kmm full-frame 3-6 x 2 kmm full-frame 16-70	External appearance				CORP.	COMP.	
Effective pixels (Jepons, magnification)					-		
Part Size part					36 x 24mm full-frame	36 x 24mm full-frame	
Image sensor		Effective pixels [Approx. me	gapixels]		21.10	16.70	
Principal pri		Pixel size [µ m square]			6.4	7.2	
Seri Cleaning Auto Cleaning Clean now		Lens Crop Factor [Approx. n	nagnification]		1.0	1.0	
Note	Image sensor	Color filter				colors	
Sersor Claning Dean manually Yes		Self Cleaning Sensor Unit				-	
Dust Delate Data						-	
Dust Debet Data		Sensor Cleaning	-			-	
Imaging engine Dou's TOICC III* To 2			Clean manua	lly	Ye	25	
A Conversion plais Security media CF (MD), SQ, external media (via WFF EAX) CF (MD), SQ							
Recording media							
Silots		A/D conversion [bits]			14	12	
Siors		Recording media			CF (MD), SD, external media (via WFT-E2A)	CF(MD), SD	
Compatible card capacity Compatible (and capacity Compatible (and capacity Confidence Compatible Confidence Compatible Confidence							
Compatible can capacity Compatible can capacity Spitic/Net.1.16 or late					·		
DMA QUITS piret Memory → Exes.) compatible Yes Design rule for Camera Resident Posterial Pystems 2.0, Exit 2.2 Recording format		Compatible card capacity			2 GB and higher (compatible with SDHC)		
Recording format		UDMA (Ultra Direct Memory	Access) Compa	tible	Yes	-	
Recording Popt			, , , , , , , , , , , , , , , , , , ,			ile System 2.0, Exif2.21	
Page Lange Page				Large			
Recording Paprox.megapixes/yM8 Reprox.megapixes/yM8 Reprox.megapixes/yM8 Reprox.megapixes/yM8 Reprox.megapixes/yM8 Reprox.megapixes/yM8 Reprox.megapixes/yM8 Reprox.megapixes/yM8 Revall PRW Solids 3744 (21 0.075:0) A992 x 3328 (1.0014.6)			IDEC	Medium1	4992 x 3328 (16.60/5.2)	3600 x 2400 (8.60/3.2)	
Recording System RAW S616 x 3744 (21.00/25.0) 4992 x 3328 (16.00/4.6)			JFEO				
Recording System SAW (Small RAW) 2784 x 1856 (5.20/14.5)		[Approx.megapixels/MB]		Small			
RAW-IPEG SMW-IPEG Yes Yes Yes Yes Auto witch media Yes (CF > SD > External media)							
System SWAH-PICE State SWAH-PICE State SWAH-PICE SWA	Recording			RAW)			
Recording functions	System						
Recording functions		3mattaneous recording	t			-	
Rec. to multiple		Pacarding functions				-	
Color space SRGB, Adobe RGB		Recording functions				- Voc (CE/SD)	
Picture Styles [types]		Color space	Rec. to muttip	ile .			
Registered Shooting -> Registered Yes (B/A, M/G: 3) levels in 1-level inc (Japprox.**) Yes (B/A, M/G: 3) levels in 1-level inc (Japprox.**) Yes (B/A, M/G: 3) levels in 1-level inc (Japprox.**) Yes (B/A, M/G: 4) levels in 1-level inc (Japprox.**) Yes (Japprox.*							
File name setting User setting 1			Assigned by o	amera			
Characters User setting 2		File name setting	User setting 1		Yes (4 characters)	-	
File No. Continuous / Auto Reset / Manual Reset		[Characters]					
Noise reduction of long exposed Yes (Off/Auto/On/C.Fn III-1) Yes (Off/On)		OSEI SELLING 2		<u> </u>		_	
Noise reduction of high ISO Shots							
Highlight tone priority	-					Yes (Off/On)	
Image copying between recording media Yes	}	-			-		
Backup to external media Yes (Via WFT-E2A, Quick and Normal)							
Detection system		0 17 0	orumg meura				
Auto WB							
Milet Balance Custom WB Registered 5 1		-					
My My My My My My My My							
Majes in card -> Registered Yes	Ĺ	Treset wb [types]			4. Tungsten light / 5. White	Fluorescent light / 6. Flash	
Shooting -> Registered Yes							
Personal WB	White Balance	Custom WB	Images in card -> Registered				
Color Temp. Spec. [Range/Increments]		- 11:	Shooting -> R	egistered			
WB correction YES (B/A/M/G: 9 / Ul improved) YES (B/A/M/G: 9 / G:9)							
Viewfinder Ves (B/A, M/G: ±3 levels in 1-level increments / UI improved) Yes (B/A, M/G: ±3 levels in 1-level increments / UI improved) Yes (B/A, M/G: ±3 levels in 1-level increments / UI improved) 100	-		ncrements]				
Coverage Approx.% 100							
Coverage [Approx.%] 100		WB bracketing				Yes (B/A, M/G: ±3 levels in 1-level increments)	
Magnification [Approx. magnification] (Angle of view [Approx.]) 0.76 (35°) 0.70 (31.9°) Eye point [mm] 20 20 Dioptric adjustment [dpt] Yes (-3 - +1) Yes (-3 - +1) Viewfinder blackout time [Approx. ms, Tv = 1/60 sec. or faster] 80 87 Indicators ISO speed always displayed Yes _ Metering mode Yes _ _ Image size Yes (RAW, JPEG) Yes (JPEG only) Battery check Yes _ Depth-of-field preview Yes _ Eyepiece shutter Yes (Gray blades) Yes		Coverage [Approx.%]				00	
Approx.) 0.76 (35°) 0.70 (31.9°)			nification] (Ang	le of view			
Dioptric adjustment [dpt]					0./6 (35°)	0./0 (31.9°)	
Viewfinder ISO speed always displayed Yes — Indicators Metering mode Yes — Image size Yes (RAW, JPEG) Yes (JPEG only) Depth-of-field preview Yes — Eyepiece shutter Yes (Gray blades) Yes		Eye point [mm]					
Faster SU S S S				Yes (-3 - +1)			
Indicators				80	87		
Metering mode Yes - Image size Yes (RAW, JPEG) Yes (JPEG only) Battery check Yes - Depth-of-field preview Yes - Eyepiece shutter Yes (Gray blades) Yes		iasterj	1				
Metering mode Yes - Image size Yes (RAW, JPEG) Yes (JPEG only) Battery check Yes - Depth-of-field preview Yes - Eyepiece shutter Yes (Gray blades) Yes			ISO speed alv	vays displaved	Yes	_	
Metering mode Yes	Viewfinder			, , ,			
Metering mode Yes		Indicators	Materia	la	V	_	
Battery check Yes – Depth-of-field preview Yes Eyepiece shutter Yes (Gray blades) Yes			metering mod	ie	Yes		
Depth-of-field preview Yes Eyepiece shutter Yes (Gray blades) Yes	,					Yes (JPEG only)	
Eyepiece shutter Yes (Gray blades) Yes		Double of Call	Battery check			-	
Standard focusing screen [Overall characteristics] Ec-C IV (Yes + Advanced features) Ec-C III (Yes)				noticoj			
Interchangeable focusing screens Yes Yes (Ec-C IV and Ec-S incompatil		intercnangeable focusing s	Lieens		Yes	Yes (Ec-C IV and Ec-S incompatible)	

Specifications Comparison of EOS-1Ds Mark III and EOS-1Ds Mark II (cont.)

	Item/Camera		EOS-1Ds Mark III	EOS-1Ds Mark II	
External appearance			Command of the Comman		
		Cross-type AF points	19 (f/2.8 for horizontal + f/5.6 for vertical)	7	
	AF Points	Assist AF points	26 (f/5.6 for vertical)	-	
		Total AF points		15	
	Superimposed display	T	Yes		
	AF	One-Shot AI SERVO	-	es	
	AF mode	Manual	Yes Yes		
Autofocus	Focusing brightness range		-1 - 18	0 - 18	
	AF point selection		Auto/I	Manual	
	AF point area expansion		Yes (C.Fn III -8)	Yes (C.Fn-17)	
	AF point selection method of		Yes (C.Fn III -4)	-	
	Operation & release timing AF Microadjustment	change in Al SERVO AF	Yes (C.Fn III - 3) Yes (C.Fn III - 7)	-	
	Switch to registered AF poir	nt	Yes (C.Fn III -10, C.Fn III -6-6)	Yes (C.Fn-18)	
		Omm f/2.8L IS USM, approx. m]		8	
	Sensor Zones		63	21	
	Focusing brightness range			- 20	
		Evaluative Partial [%]		es (8.5)	
	Metering Modes	Spot [%]	Yes (2.4/C.Fn I -7)	Yes (2.4/C.Fn-13)	
		Multi-spot		5 (8)	
		Center-weighted average		es	
	ISO Speed	Setting range [ISO, step] ISO extension [ISO]	-> (C.Fn I -3)	Yes (L: 50, H: 3200)	
Exposure Control	150 Speed	ISO safety shift	Yes (C.Fn I -8)	res (E: 50, Ti: 5200)	
Control		Program AE		es	
		Shutter-priority AE	Y	es	
	Shooting Modes	Aperture-priority AE	Yes		
		Manual exposure		es	
	AE Lock			es es	
	Exposure Compensation [in	crements and range		3•±3	
	AEB [increments and Tv/Av		Yes (1	/3•±3)	
	range]	ISO	-	Yes	
	Type			ter with all speeds electronically controlled	
	Speeds [sec.]			30, bulb	
Shutter			1/.	250	
Shutter	Max. sync speed [sec.] Release time lag [Halfway p	ress -> Full press in ms]	· · · · · · · · · · · · · · · · · · ·	optimum)	
Shutter	Max. sync speed [sec.]		55 (40 at 300,000	optimum) 200,000	
Shutter	Max. sync speed [sec.] Release time lag [Halfway p	Silent	55 (40 at 300,000 Yes	optimum) 200,000 Yes (P.Fn-21)	
Shutter	Max. sync speed [sec.] Release time lag [Halfway p	Silent Single	55 (40 at 300,000 Yes Yes	optimum) 200,000 Yes (P.Fn-21) es	
Shutter	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.]	Silent	55 (40 at 300,000 Yes Y High-speed: 5, Low-speed: 3	optimum) 200,000 Yes (P.Fn-21)	
Shutter Drive	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.]	Silent Single Continuous [approx. fps] Self-timer [sec.]	55 (40 at 300,000 Yes Y High-speed: 5, Low-speed: 3	optimum) 200,000 Yes (P.Fn-21) es 4	
	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max.	Silent Single Continuous [approx.fps] Self-timer [sec.] approx. fps] JPEG	55 (40 at 300,000 Yes Yes High-speed: 5, Low-speed: 3 10 5 56	optimum) 200,000 Yes (P.Fn-21) es 4 0, 2 4 32	
	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability (Approx.) Drive Modes	Silent Single Continuous [approx. fps] Self-timer [sec.] approx. fps JPEG RAW	55 (40 at 300,000 Yes Yes High-speed: 5, Low-speed: 3 10 5 56 12	optimum) 200,000 Yes (P.Fn-21) es 4 , 2 4 32 11	
	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot]	Silent Single Continuous [approx.fps] Self-timer [sec.] approx. fps] JPEG	55 (40 at 300,000 Yes Yes High-speed: 5, Low-speed: 3 10 5 56 12 10	optimum) 200,000 Yes (P.Fn-21) es 4 2, 2 4 32 11 9	
	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot] Mirror lockup	Silent Single Continuous [approx. fps] Self-timer [sec.] approx. fps JPEG RAW	55 (40 at 300,000 Yes Yes High-speed: 5, Low-speed: 3 10 5 56 12 10 Yes (C.Fn III -15/Continuous shooting enabled)	optimum) 200,000 Yes (P.Fn-21) es 4 0, 2 4 32 11 9 Yes (C.Fn-12)	
	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot] Mirror lockup Flash metering Evaluative/Averaged flash r	Silent Single Continuous [approx. fps] Self-timer [sec.] approx. fps] JPEG RAW RAW+JPEG Large	55 (40 at 300,000 Yes Yes High-speed: 5, Low-speed: 3 10 5 56 12 10 Yes (C.Fn III -15/Continuous shooting enabled) E-TTL II Yes (C.Fn III -4)	optimum) 200,000 Yes (P.Fn-21) es 4 7, 2 4 32 11 9 Yes (C.Fn-12) TTL II Yes (C.Fn-14)	
Drive	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot] Mirror lockup Flash metering Evaluative/Averaged flash r FE lock	Silent Single Continuous [approx. fps] Self-timer [sec.] approx. fps JPEG RAW RAW+JPEG Large RAWetring RAW+JPEG Large RA	55 (40 at 300,000 Yes Yes Y High-speed: 5, Low-speed: 3 10 5 56 12 10 Yes (C.Fn III -15/Continuous shooting enabled) E-TTL II Yes (C.Fn III -4) Yes (C.Fn III -4)	optimum) 200,000 Yes (P.Fn-21) es 4 0, 2 4 32 11 9 Yes (C.Fn-12) TT. II Yes (C.Fn-14) es	
	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot] Mirror lockup Flash metering Evaluative/Averaged flash r	Silent Single Continuous [approx. fps] Self-timer [sec.] approx. fps JPEG RAW RAW+JPEG Large RAWetring RAW+JPEG Large RA	55 (40 at 300,000 Yes Yes Y High-speed: 5, Low-speed: 3 10 5 56 12 10 Yes (C.Fn III -15/Continuous shooting enabled) E-TTL II Yes (C.Fn III -4) Yes (C.Fn III -4)	optimum) 200,000 Yes (P.Fn-21) es 4 7, 2 4 32 11 9 Yes (C.Fn-12) TTL II Yes (C.Fn-14)	
Drive	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot] Mirror lockup Flash metering Evaluative/Averaged flash r FE lock Flash exposure compensati FEB 2nd-curtain sync	Silent	55 (40 at 300,000 Yes Yes Y High-speed: 5, Low-speed: 3 10 5 56 12 10 Yes (C.Fn III -15/Continuous shooting enabled) E-TTL II Yes (C.Fn II -4) Yes (Settable with camera/Speedlite) Yes (Settable with	optimum) 200,000 Yes (P.Fn-21) es 4 0, 2 4 32 11 9 Yes (C.Fn-12) TIL II Yes (C.Fn-14) es	
Drive	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot] Mirror lockup Flash metering Evaluative/Averaged flash r FE lock Flash exposure compensati FEB 2nd-curtain sync Speedlite settable with can	Silent	55 (40 at 300,000 Yes Yes High-speed: 5, Low-speed: 3 10 5 56 12 10 Yes (C.Fn III -15/Continuous shooting enabled) E-TTL II Yes (C.Fn III -4) Yes (Settable with camera/Speedlite) Yes (Settable with Yes (Command wireless features added)	optimum) 200,000 Yes (P.Fn-21) es 4 0, 2 4 32 11 9 Yes (C.Fn-12) TTL II Yes (C.Fn-14) es Yes (Settable with Speedlite) camera/Speedlite) -	
Drive	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot] Mirror lockup Flash metering Evaluative/Averaged flash r FE lock Flash exposure compensati FEB Znd-curtain sync Speedlite settable with can Speedlite Custom Function:	Silent	55 (40 at 300,000 Yes Yes Y High-speed: 5, Low-speed: 3 10 5 56 12 10 Yes (C.Fn III -15/Continuous shooting enabled) E-TTL II Yes (C.Fn III -4) Yes (Settable with camera/Speedlite) Yes (Settable with Yes (Zoom and wireless features added) Yes	optimum) 200,000 Yes (P.Fn-21) es 4 0, 2 4 32 11 9 Yes (C.Fn-12) TIL II Yes (C.Fn-14) es 2+3 Yes (Settable with Speedlite) camera/Speedlite - -	
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Drive External Flash Live View Function	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot] Mirror lockup Flash metering Evaluative/Averaged flash r FE lock Flash exposure compensati FEB 2nd-curtain sync Speedlite settable with car Speedlite Custom Function: Remote Live View Function (Camera) Live View Function (Camera) Live View Function	Silent	55 (40 at 300,000 Yes Yes Y High-speed: 5, Low-speed: 3 10 5 56 12 10 Yes (C.Fn III -15/Continuous shooting enabled) E-TTL II Yes (C.Fn II -4) Yes (C.Fn II -4) Yes (Settable with camera/Speedlite) Yes (Settable with camera seaded) Yes (Zoom and wireless features added) Yes Yes (EOS Utility) Yes	optimum) 200,000 Yes (P.Fn-21) es 4 7, 2 4 32 11 9 Yes (C.Fn-12) TIL II Yes (C.Fn-14) es ***43 Yes (Settable with Speedlite) camera/Speedlite) (Live View Function shooting impossible,	
Drive External Flash Live View	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot] Mirror lockup Flash metering Evaluative/Averaged flash r FE lock Flash exposure compensati FEB 2nd-curtain sync Speedlite settable with can Speedlite Custom Function: Remote Live View Function	Silent	55 (40 at 300,000 Yes Yes Y High-speed: 5, Low-speed: 3 10 5 56 12 10 Yes (C.Fn III -15/Continuous shooting enabled) E-TTL II Yes (C.Fn III -4) Yes (Settable with camera/Speedlite) Yes (Settable with Yes (Zoom and wireless features added) Yes Yes (EOS Utility)	optimum) 200,000 Yes (P.Fn-21) es 4 0, 2 4 32 11 9 Yes (C.Fn-12) TIL II Yes (C.Fn-14) es 2+3 Yes (Settable with Speedlite) camera/Speedlite - -(Live View Function shooting impossible, shooting and image transfer only) - - - - - - - - - - - - -	
Drive External Flash Live View Function	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot] Mirror lockup Flash metering Evaluative/Averaged flash r FE lock Flash exposure compensati FEB 2nd-curtain sync Speedlite Settable with can Speedlite Custom Function: Remote Live View Function (Camera) Live View Function (Grid display Exposure simulation Aspect ratio indicator/Info a	Silent Single Continuous [approx. fps] Self-timer [sec.] approx. fps] IPEG RAW RAW+JPEG Large metering on [increments/amount] hera s settable shooting n shooting	55 (40 at 300,000 Yes Yes Y High-speed: 5, Low-speed: 3 10 5 56 12 10 Yes (C.Fn III -15/Continuous shooting enabled) E-TTL II Yes (C.Fn II -4) Yes (C.Fn III -4) Yes (Settable with camera/Speedlite) Yes (Settable with ves (Zoom and wireless features added) Yes Yes (EOS Utility) Yes Yes Yes	optimum) 200,000 Yes (P.Fn-21) es 4 0, 2 4 32 11 9 Yes (C.Fn-12) TIL II Yes (C.Fn-14) es ****3 Yes (Settable with Speedlite) camera/Speedlite)	
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Drive External Flash Live View Function Shooting	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot] Mirror lockup Flash metering Evaluative/Averaged flash r FE lock Flash exposure compensati FEB 2nd-curtain sync Speedlite settable with car Speedlite Custom Function: (Camera) Live View Function (Gamera) Live View Function Grid display Exposure simulation Aspect ratio indicator/Info a Screen Size [in.] Pixels displayed [Approx.]	Silent Single Continuous [approx. fps] Self-timer [sec.] approx. fps] JPEG RAW RAW+JPEG Large metering ion [increments/amount] mera as settable shooting appended [Vertical	55 (40 at 300,000 Yes Yes Y High-speed: 5, Low-speed: 3 10 5 56 12 10 Yes (C.Fn III -15/Continuous shooting enabled) E-TTL II Yes (C.Fn II -4) Yes (Settable with camera/Speedlite) Yes (Settable with Yes (Toom and Wireless features added) Yes Yes Yes Yes Yes Yes Yes Ye	optimum) 200,000 Yes (P.Fn-21) es 4 0, 2 4 32 11 9 Yes (C.Fn-12) TIL II Yes (C.Fn-14) es **23 Yes (Settable with Speedlite) camera/Speedlite) -(Live View Function shooting impossible, shooting and image transfer only) 2.0 ,000 (Undisclosed)	
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Drive External Flash Live View Function Shooting	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot] Mirror lockup Flash metering Evaluative/Averaged flash r FE lock Flash exposure compensati FEB 2nd-curtain sync Speedlite settable with car Speedlite Custom Function: (Camera) Live View Function (Gamera) Live View Function Grid display Exposure simulation Aspect ratio indicator/Info a Screen Size [in.] Pixels displayed [Approx.]	Silent Single Continuous [approx. fps] Self-timer [sec.] approx. fps] IPEG RAW RAW+JPEG Large metering on [increments/amount] hera s settable shooting appended Vertical Horizontal	55 (40 at 300,000 Yes Yes Y High-speed: 5, Low-speed: 3 10 5 56 12 10 Yes (C.Fn III -15/Continuous shooting enabled) E-TTL II Yes (C.Fn II -4) Yes (Settable with camera/Speedlite) Yes (Settable with Yes (Toom and Wireless features added) Yes Yes Yes Yes Yes Yes Yes Ye	optimum) 200,000 Yes (P.Fn-21) es 4 0, 2 4 32 11 9 Yes (C.Fn-12) TIL II Yes (C.Fn-14) es **23 Yes (Settable with Speedlite) camera/Speedlite) -(Live View Function shooting impossible, shooting and image transfer only) 2.0 ,000 (Undisclosed)	
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Drive External Flash Live View Function Shooting	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot] Mirror lockup Flash metering Evaluative/Averaged flash r FE lock Flash exposure compensati FEB 2nd-curtain sync Speedlite settable with car Speedlite Custom Function: (Camera) Live View Function (Grid display Exposure simulation Aspect ratio indicator/Info a Screen Size [in.] Pixels displayed [Approx.] Angle of view [*] Max. brightness Brightness adjustment [Lev Character size Shooting settings	Silent Single Continuous [approx. fps] Self-timer [sec.] approx. fps] IPEG RAW RAW+JPEG Large metering on [increments/amount] hera s settable shooting appended Vertical Horizontal	55 (40 at 300,000 Yes Yes Y High-speed: 5, Low-speed: 3 10 5 56 12 10 Yes (C.Fn III -15/Continuous shooting enabled) E-TTL II Yes (C.Fn III -4) Yes (C.Fn III -4) Yes (Settable with camera/Speedlite) Yes (Settable with camera/Speedlite) Yes (Settable with ves (EoS Utility) Yes Yes Yes Yes Yes Yes Yes Ye	optimum) 200,000 Yes (P.Fn-21) es 4 0, 2 4 32 111 9 Yes (C.Fn-12) TIL II Yes (C.Fn-14) es ***3 Yes (Settable with Speedlite) camera/Speedlite) (Live View Function shooting impossible, shooting and image transfer only) 2.0 ,000 (Undisclosed) (Undisclosed) (Undisclosed) Yes Yes (S, Gray chart) Yes Button + Quick Control Dial	
Drive External Flash Live View Function Shooting	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot] Mirror lockup Flash metering Evaluative/Averaged flash r FE lock Flash exposure compensati FEB 2nd-curtain sync Speedlite settable with can Speedlite Custom Function (Camera) Live View Function (Grid display Exposure simulation Aspect ratio indicator/Info: Screen Size [in.] Pixels displayed [Approx.] Angle of view [*] Max. brightness Brightness adjustment [Lev Character size	Silent Single Continuous [approx. fps] Self-timer [sec.] approx. fps] IPEG RAW RAW+JPEG Large metering on [increments/amount] hera s settable shooting appended Vertical Horizontal	55 (40 at 300,000 Yes Yes Y High-speed: 5, Low-speed: 3 10 5 56 12 10 Yes (C.Fn III -15/Continuous shooting enabled) E-TTL II Yes (C.Fn III -4) Yes (C.Fn III -4) Yes (Settable with camera/Speedlite) Yes (Settable with camera/Speedlite) Yes (Settable with ramera/Speedlite) Yes (Settable with Yes (Com and wireless features added) Yes Yes Yes Yes Yes Yes Yes Ye	optimum) 200,000 Yes (P.Fn-21) es 4 0, 2 4 32 11 9 Yes (C.Fn-12) TIL II Yes (C.Fn-14) es 2+3 Yes (Settable with Speedlite) camera/Speedlite) (Live View Function shooting impossible, shooting and image transfer only) 2.0 000 (Undisclosed) (Undisclosed) Yes Yes (S, Gray chart) Yes	
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Drive External Flash Live View Function Shooting	Max. sync speed [sec.] Release time lag [Halfway p Shutter Durability [Approx.] Drive Modes Continuous shooting [Max. Max. Burst [Approx. shot] Mirror lockup Flash metering Evaluative/Averaged flash r FE lock Flash exposure compensati FEB 2nd-curtain sync Speedlite settable with can Speedlite Custom Function (Camera) Live View Function (Grid display Exposure simulation Aspect ratio indicator/Info: Screen Size [in.] Pixels displayed [Approx.] Angle of view ["] Max. brightness Brightness adjustment [Lev Character size Shooting settings Menu selection	Silent Single Continuous [approx. fps] Self-timer [sec.] approx. fps] JPEG RAW RAW+JPEG Large metering ion [increments/amount] hera as settable shooting appended Vertical Horizontal	55 (40 at 300,000 Yes Yes Y High-speed: 5, Low-speed: 3 10 5 56 12 10 Yes (C.Fn III -15/Continuous shooting enabled) E-TTL II Yes (C.Fn III -4) Yes (Settable with camera/Speedlite) Yes (Settable with camera/Speedlite) Yes (Settable with ves (Settable with Yes (Settable with Yes (Settable with Yes (Settable with Yes (C.Fn IV -16) Yes (EOS Utility) Yes Yes Yes Yes (C.Fn IV -16) Yes (C.Fn IV -14) 3.0 230 140 (70/70) Yes (C.Fn IV -14) Yes (Grighter) Yes (7, Gray chart) Yes (Garger) Button (Timer) -> Main/Quick Control Dial Main Dial/Quick Control Dial -> SET button Main Dial/Quick Control Dial	optimum) 200,000 Yes (P.Fn-21) es 4 0, 2 4 32 11 9 Yes (C.Fn-12) TIL II Yes (C.Fn-14) es 2+3 Yes (Settable with Speedlite) camera/Speedlite) (Live View Function shooting impossible, shooting and image transfer only) 2.0 000 (Undisclosed) (Undisclosed) (Vindisclosed) Yes Yes (S, Gray chart) Yes Button + Quick Control Dial MENU / SELECT+ Quick Control Dial	

Specifications Comparison of EOS-1Ds Mark III and EOS-1Ds Mark II (cont.)

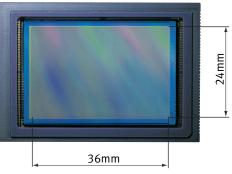
Command appearance		Item/Camera		EOS-1Ds Mark III	EOS-1Ds Mark II	
Maries S. Caston injustice Final State 1 1 1 1 1 1 1 1 1	External appeara	nce		Gana Bit		
		Category				
Marini American Marini American Personal Practions Personal Practicol Prac		Interface Languages		· ·		
Continuation Septimate			Custom Functions [Types]	57 (l:15, ll:9, lll:17, lV:16)	20	
Seminary		Customization		Consolidated with Custom Functions	27	
Pagister camera settings	Customization			Yes (Set 1 - 3)	Yes (P.Fn-00: 3)	
Mean specialization		Save/read camera settings	with card	Yes (10)	Yes (1)	
Menu operation during image closed prividing 1. Single image						
Single image display (Py=s)						
Pay Act Pay				Single image, 2. Single image + image size, 3. Shooting information, 4. Histogram		
Pulyaka		Index display [Images]		Yes	4, 9)	
Payabasa		Zoom-in magnification	Magnification [Approx.]/Steps	1.5 - 1	0/15	
Mistogram			Initial magnified position			
Mighight alart Mighight Might Mighight Mighi	Playback					
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Motate image						
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Sound recording [set.] The Version of Program of					· · · · · · · · · · · · · · · · · · ·	
Camera no Price (1 low) even format Ves (9 locard only) — Camera no Price (1 low) even format Pricisifidge (PTP) compatibility New Substance (Pthinting effects effected in displayed image and tilt correction added) Yes Direct image transfer of professions yet in terminal (1 loss) in the price of the profession system terminal (1 loss) in the price of the profession system terminal (1 loss) in the price of						
Camera Direct/DPOFF Pict Birlidge (PTP) Compatibility DPOFT (PVE1) Pinting effects reflected in displayed image and this correction added) Yes Direct (DPOFT (PVE1) POPOT (PVE1						
Camera (Pig) Direct Compatibility — and tilt correction added) Yes Direct Jones (Pig) Direct Compatibility — and tilt correction added) Yes (Protect Compatibility) Direct Limage transfer order Yes (Protect Compatibility) — Yes (Protect Compatibility) Limage accorate (Pig) Direct Compatibility Yes (Protect Compatibility) — Yes (Protect Compatibility) Limage accorate (Pig) Direct Compatibility — Yes (Protect Compatibility) — Yes (Protect Compatibility) Viredo OUT — Senate Terminal (USB) — Yes (Protect Compatibility) — Yes Advanced features (WFT-E2A) Extension system terminal (Senate Terminal (USB) — Yes Advanced features (WFT-E2A) — Yes (WFT-E1A) Extension system terminal (Senate Terminal (USB) — Yes (Na WFT-E2A) — Yes (WFT-E1A) Extension system terminal (Senate Terminal (USB) — Yes (Na WFT-E2A) — Yes (WFT-E1A) Extension system terminal (Senate Terminal (USB) — Yes (Na WFT-E2A) — Protect Compatibility Extension system terminal (USB) — Yes (Na WFT-E2A) — Protect Compatibility Extension system terminal (USB) — Yes (Na WFT-E2A) — Protect Compatibility Extension system terminal (USB) — Yes (Na WFT-E2A) — Protect Compatibili		PictBridge (PTP) Compatibility		Yes + Advanced features		
Direct image transfer order Yes / Yes / Yes / Yes / Yes / Yes / Protector provided Pr						
Direct image t s t s t s in the part of t				- Yes		
Interface	Direct image tran				-	
Extension system terminal (US)				-	Yes (Protector provided)	
Professional (Use Pr		USB2.0 Hi-Speed		Yes (Protector provided)	-	
Nemicration Page						
Remote Control Terminal (Type PC Ferminal PC Fermin	Interface		5B)			
Mircless/wired Location Mircless/wired			ype]			
Wireless/wired LAN compatibility Yes Advanced features (WFT-E2A) Yes (WFT-E1A) External media concision Yes (via WFT-E2A) — GPS device compatibility Yes (via WFT-E2A) — Original image verification data Yes (CFIN IV-15) Yes (P.Fn-31) Image encryption Yes (OSK-E3) — Power Source Battery (Capacity, mAh) Dedicated Li-ion battery (2300) Dedicated Ni-MH battery (NP-E3: 1650) Number of shots [At 23°C/TeA] 1800/1400 1200/800 Power Source Battery information Remaining capacity detection Yes (1% increments) — Battery information Recharge performance Yes (1% increments) — AC drive Yes (3) levels) — Backup battery for date/ture count Yes (3) levels) — Exterior color Backup battery for date/ture obox Magnesium and aluminum Exterior color Exterior color Battery information Yes (Suited for water-resistant Speedlite) Yes Exterior Color Dust- and water-resistant Speedlite Yes Yes LO panel <td></td> <td>PC Terminal</td> <td></td> <td colspan="3">Yes</td>		PC Terminal		Yes		
External media conception Yes (via WFT-E2A) - GPS device compatibility Yes (via WFT-E2A) - Original image verification data Yes (C.Fn IV -15) Yes (P.Fn-31) Image encryption Yes (OSK-E3) - Battery (Capacity, mAh) Dedicated Li-ion battery (2300) Dedicated Ni-Mit battery (NP-E3: 1650) Number of shots [At 23°C/ToPA) 1 Bodicated Li-ion battery (2300) Dedicated Ni-Mit battery (NP-E3: 1650) Number of shots [At 23°C/ToPA] 1 Bodicated Li-ion battery (2300) Dedicated Ni-Mit battery (NP-E3: 1650) A C drive Remaining capacity detection Yes (18' increments) - Battery information Remaining capacity detection Yes (18' increments) - Battery information Remaining capacity detection Yes (18' increments) - Battery information Magnesium and aluminum Magnesium and Aluminum <th colspa<="" td=""><td></td><td></td><td></td><td colspan="2"></td></th>	<td></td> <td></td> <td></td> <td colspan="2"></td>					
GPS device comptibility Yes (via WFT-E2A) − Original image verifaction data Yes (C.Fn IV -15) Yes (P.Fn-31) Image encryption Yes (OSK-E3) − Battery (Capacity, mAh) Dedicated Li-ion battery (2300) Dedicated Ni-MH battery (NP-E3: 1650) Number of shots [At 23°C/73°F] (CIPA) 1800/1400 1200/800 Power Source Remaining capacity detection Yes (3 levels) − AC drive Yes (ACK-E4) Yes (DCK-E1) Battery information Remaining capacity detection Yes (3 levels) − AC drive Yes (CIVE-E1) Tex (ACK-E4) Yes (DCK-E1) Battery information Magnesium Magnesium Magnesium Magnesium Magnesium and aluminum Exterior color Statuterior color Top/Rear Yes (Suited for water-resistant Speedlite) <th col<="" td=""><td></td><td></td><td></td><td></td><td>Yes (WFT-E1A)</td></th>	<td></td> <td></td> <td></td> <td></td> <td>Yes (WFT-E1A)</td>					Yes (WFT-E1A)
Original image verification data Yes (C.Fn IV -15) Yes (P.Fn-31) Image encryptive Yes (OSK-E3) - A grading capacity, mah) Dedicated Li-ion battery (2300) Dedicated Ni-MH battery (NP-E3: 1650) Power Source Remaining capacity detection Yes (3 levels) - Power Source Remaining capacity detection Yes (3 levels) - Ac drive Yes (Actives) - Act drive Yes (ACK-E4) Yes (DCK-E1) Battery information Pres (PCK-E4) Yes (DCK-E1) Remaining capacity detection Yes (ACK-E4) Yes (ACK-E4) Yes (DCK-E1) Remaining capacity detection <td co<="" td=""><td></td><td></td><td></td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td></td> <td></td>					
Dedicated Li-ion battery (2300) Dedicated Ni-MH battery (NP-E3: 1650)	-					
Battery (Capacity, mAh) Number of shots [At 23°C/73°F] (CIPA) 1800/1400 1200/80				` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	- (F.F.II-)1)	
Number of shots [At 23°C/73°F] (CIPA) 1800/1400 1200/800 Power Source Remaining capacity detection Recharge performance Yes (3 levels) — AC drive Yes (ACK-E4) Yes (DCK-E1) Backup battery for date/time CR2025 Exterior Color Main materials (Body, covers, mirror box) Magnesium Magnesium and aluminum Exterior color Blackup dater-resistance Yes (Suited for water-resistant Speedlite) Yes LCD panel Top/Rear Yes/Ves Illumination Yes Startup time (Approx. sec.] 0.2 0.3 Dimensions [Wx + x or plane] 6.1 x 6.3 x 3.1 in./156 x 159.6 x 79.9 mm 6.1 x 6.2 x 3.1 in./156 x 157.6 x 79.9 mm Weight [Approx. gl Body only 42.70z./1,210g 42.90z./1,215g Including battery and eyer (excludes body cap) 1,400g 1,550g Operation Environment Ambient humidity [% or less] 85	age eneryption	1			Dedicated Ni-MH battery (NP-F3: 1650)	
Power Source Battery information Remaining capacity detection Recharge performance Yes (1% increments) — AC drive Shutter count Yes — Exterior Backup battery for date/time Tes (ACK-E4) Yes (DCK-E1) Batterior color Backup battery for date/time Magnesium Magnesium and aluminum Exterior color Exterior color Blackup date-resistant Speedlite Yes Lobust- and water-resistant Yes Yes Canon logo Relief letters with white filling LCD panel Tor/Rear Yes/Yes Illumination Yes Startup time [Approx. sec.] 0.2 0.3 Dimensions [W x + x or] Body only 42.70z./1,210g 6.1 x 6.2 x 3.1 in/156 x 157.6 x 79.9 mm Weight [Approx. gl Body only 42.70z./1,210g 42.90z./1,215g Including battery and eye-tuckudes body cap) 1,400g 1,550g Operation Environment Ambient humidity [% or less] 6.1 x 6.2 x 3.1 in/156 x 157.6 x 79.9 mm			73°F] (CIPA)			
Shutter count Yes			Remaining capacity detection		-	
AC drive	Power Source	Battery Information			-	
Backup battery for date/time		AC drive	Shatter count		Yes (DCK-E1)	
$Exterior \begin{tabular}{l l l l l l l l l l l l l l l l l l l $						
Exterior Qust- and water-resistant Speedlite) Yes (Suited for water-resistant Speedlite) Yes /ves 1 CD panel Top/Rear Yes/rves Illumination Yes /ves Startup time [Approx. sec.] 0.2 0.3 Dimensions [W x x D] 6.1 x 6.3 x 3.1 in./156 x 159.6 x 79.9 mm 6.1 x 6.2 x 3.1 in./156 x 157.6 x 79.9 mm Weight [Approx. gl Body only 42.7oz./1,210g 42.9oz./1,215g [Approx. gl Including battery and eye: (excludes body cap) 1,400g 1,550g Operation Environment Ambient temperature 0 - 45°C/32-113°F Ambient temperature Ambient humidity [% or less]			ers, mirror box)	-	-	
Exterior Canon logo Relief letters with white filling 1						
LCD panel Top/Rear Inlumination Yes/Yes Startup time [Approx. sec.] 0.2 0.3 Dimensions [W x x D] 6.1 x 6.3 x 3.1 in./156 x 159.6 x 79.9 mm 6.1 x 6.2 x 3.1 in./156 x 157.6 x 79.9 mm Weight [Approx. gl Body only 42.70cz/1,210g 42.90cz/1,215g Including battery and eyec up (excludes body cap) 1,400g 1,550g Operation Environment Ambient temperature 0 - 45°C/32-113°F Ambient humidity [% or less] 85	Exterior					
CLU panel Illumination Yes		Ton/Rear				
Dimensions W x H x D		LCD panel				
Weight [Approx. g] Body only 42.7oz./1,210g 42.9oz./1,215g Including battery and eyecup (excludes body cap) 1,400g 1,550g Operation Environment Ambient temperature 0 - 45°C/32·113°F Ambient humidity [% or less] 85	Startup time [App			0.2	0.3	
[Approx. g] Including battery and eyecup (excludes body cap) 1,400g 1,550g Operation Environment Ambient temperature 0 - 45°C/32·113°F Ambient humidity [% or less] 85	Dimensions [W x					
Operation Environment Ambient temperature 0 - 45°C/32·113°F Ambient humidity [% or less] 85						
Environment Ambient humidity [% or less] 85		i	up (excludes body cap)			
The state of the s		-	ss			
		1				

IV. DISCUSSION OF NEW AND IMPROVED FEATURES

New 21.1 Megapixel, Full Frame CMOS Sensor

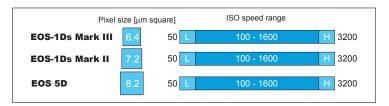
The 35mm full-frame CMOS sensor of the EOS-1Ds Mark III has been developed and manufactured by Canon. Its 6.4µm pixels take advantage of a host of Canon R&D advances to achieve its speed, resolution and image quality. The following features make the EOS-1Ds Mark III the highest performing digital AF SLR camera:

- 35mm full-frame digital AF SLR with the world's highest resolution, approximately 21.1 megapixels*
- Wide ISO speed range (ISO 100- 1600, L: 50, H: 3200)
- Low noise (same level as EOS-1Ds Mark II)
- High-speed signal reading (approximately 5 fps)
- Low power consumption
- Live View Function



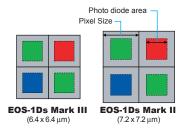
CMOS Sensor (Actual Size)

Although the pixel size is about the same as that of the EOS 30D, the ISO speed range is the same as that of the EOS-1Ds Mark II.

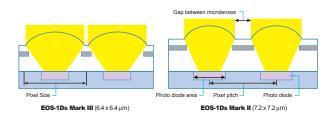


By optimizing the gap between the on-chip microlenses, reducing the height from the photodiode to the microlens, and improving the fill factor (photo diode area divided by pixel size) by applying the micro-rule that improves the performance of the exposure device, light-gathering efficiency has been improved.

Opening Ratio (Conceptual Diagram)



Microlens Comparison (Conceptual Diagram)



^{*}For 24x36mm format as of August 20, 2007.

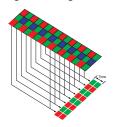
Also, the second-generation, on-chip noise removal circuit and a newly-developed noise reduction technology combine to remove noise effectively. To achieve even less noise, the EOS-1Ds Mark III has a new output amp that attains both high speed and low noise. Low noise is also achieved with an improved manufacturing process, optimized pixel amp, and optimized reading circuit.

Thanks to optimized photo diode construction and finer processing, the photo diode can still accumulate enough light to function exceptionally well. At low ISO speeds, the dynamic range is about the same as that of the EOS-1Ds Mark II.

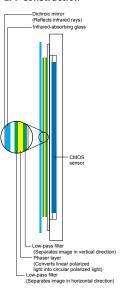
As with the EOS-1D Mark III, single-line, 8-channel parallel reading is employed. With a low-noise, high-speed output amp, a continuous shooting speed of approximately 5 fps is attained, even with approximately 21.1 megapixels with which to contend.

The infrared, low-pass hybrid filter in front of the sensor consists of an infrared-absorption glass (including multiple coatings to reflect ultraviolet and infrared rays) and low-pass filter (phase plate sandwiched by two single-crystal plates). Other than optimization for the full-frame CMOS sensor, the specifications are the same as for the EOS-1D Mark III.

Diagram of 8-channel Signal Reading



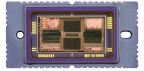
LPF Construction



Autofocus

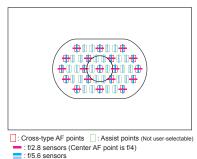
The state-of-the-art AF sensor in the EOS-1Ds Mark III is shared with the EOS-1D Mark III. The AI SERVO AF algorithm has been optimized to match the continuous shooting speed of the EOS-1Ds Mark III, approximately 5 fps. Also, due to the full-frame CMOS sensor, the Area AF coverage with respect to the viewfinder is slightly smaller than with the EOS-1D

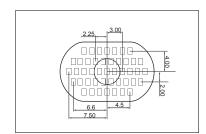
Mark III. The AF speed and predictive AF performance are the same as with the EOS-1D Mark III. All other AF-related specifications not mentioned here are also the same as the best-inclass EOS-1D Mark III.



AF Sensor

AF Sensor Configuration





With the EF 24mm f/2.8 or EF 28mm f/2.8 lens, cross-type focusing will be active with the 13 AF points shown in the diagram; the remaining 6 AF points will be horizontal line-sensitive at f/5.6. All other EF lenses take full advantage of the AF sensor.

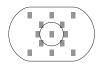
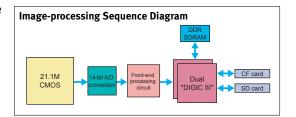
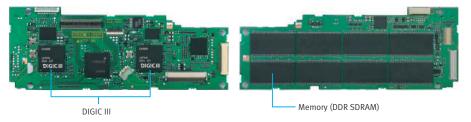


Image Recording and Processing

All basic specifications related to image processing such as Dual "DIGIC III" Image Processors, 14-bit A/D conversion, and DDR SDRAM are the same as those of the EOS-1D Mark III.



Digital Control Circuit Board



The number of pixels for all image sizes is about double that of the EOS-1D Mark III. The recorded resolution can be set to any one of six sizes. For JPEGs, the compression rate can be set to one of 10 settings for each image size, a feature shared with the EOS-1D Mark III. The sRAW or Small RAW setting that was originally introduced with the EOS-1D Mark III becomes even more useful with the EOS-1Ds Mark III, since the resolution in sRAW is 5.3 megapixels with the new camera.

Recording Quality Specifications

Image size		Pixels [Approx. megapixels]	File Size [Approx. MB/	Possible Shots [Approx.]	Maximum burst [Approx.]		Printing Size	
		[ripprox: megapixets]	Shot]	[/tpprox.]	High-speed	Low-speed	5,20	
L		21.10 (5616 x 3744)	6.4	290	56 (63)	83 (180)	A2 or larger	
M1		16.60 (4992 x 3328)	5.2	350	73 (96)	140 (370)	Around A2	
M2		11.00 (4080 x 2720)	3.9	470	110 (160)	300 (500)	Around A3	
S		5.20 (2784 x 1856)	2.2	840	160 (470)	890 (890)	Around A4	
RAW		21.10 (5616 x 3744)	25.0	75	12 (12)	14 (16)	A2 or larger	
	L		25.0 + 6.4	54	10 (10)	10 (10)		
RAW+	M1		25.0 + 5.2	57	10 (10)	10 (10)		
K/WV+	M2	_	25.0 + 3.9	60	12 (12)	12 (12)	_	
	S		25.0 + 2.2	64	12 (12)	12 (12)		
sRAW		5.20 (2784 x 1856)	14.5	130	18 (18)	24 (28)	Around A4	
	L		14.5 + 6.4	82	12 (12)	14 (16)		
sRAW+	M1		14.5 + 5.2	90	12 (12)	14 (16)		
SKAW+	M2	_	14.5 + 3.9	97	12 (12)	18 (18)	_	
	S		14.5 + 2.2	100	18 (20)	20 (24)		

^{*} The number of possible shots (battery life) and continuous shooting speed are based on Canon's testing standards and a 2 GB CF card.

^{*} Under Maximum burst, the number in parentheses is the maximum burst with a UDMA-compatible 2 GB CF card used in Canon's tests.

^{*} JPEG quality 8, ISO 100, the Standard Picture Style and initial Custom Function settings.

^{*} The actual file size of one image, number of possible shots (battery life), and maximum burst during continuous shooting vary depending on the subject, memory card brand, ISO speed, Picture Style, Custom Function settings, etc.

The EOS-1Ds Mark III is compatible with UDMA (Ultra Direct Memory Access), a new CF card specification (CompactFlash Specifications Revision 4.0) enabling high-speed writing to the CF card. With a UDMA CF card, the high-speed data transfer is about twice as fast as the EOS-1D Mark III (about 3 times as fast as the EOS-1Ds Mark III). Although the EOS-1Ds Mark III has twice as many pixels as the EOS-1D Mark III, the writing speed per file is about the same as the EOS-1D Mark III, which is quite amazing.

The camera is compatible with SD memory cards including SDHC (SD High-Capacity) cards. The writing speed with SD cards is the same as that of the EOS-1D Mark III.

Viewfinder

Large, bright viewfinders are an inherent advantage of full-frame sensor DSLR cameras. The viewfinder of the EOS-1Ds Mark III incorporates a totally redesigned pentaprism and refined eyepiece optics to make the viewfinder performance of the EOS-1Ds Mark III the best in its class. Remarkably, the viewfinder provides the highest magnification and widest coverage in the history of EOS-1 series cameras, including film models, approximately 0.76x and 35°. This is a substantial improvement over the EOS-1Ds Mark II. The new

finder also corrects the distortion in EOS-1Ds series cameras to make the large viewfinder look more natural. The 100% viewfinder coverage, approximately 20mm eyepoint, -3 to +1 dpt dioptric adjustment range, and eyepiece shutter are the same as the EOS-1D Mark III's. It is now an even greater pleasure to look through the finder and the point of focus is much easier to find and follow.

Viewfinder Coverage Comparison FOS-1D Mark III coverage

EOS-1Ds Mark II coverage EOS-1Ds Mark III coverage

Major Viewfinder Specifications

Item	1Ds Mark III	1Ds Mark II	5D	1D Mark III
Coverage [Approx. %]	100	100	96	100
Magnification [Approx. X] (Viewing angle [°])	0.76 (35.0)	0.70 (31.9)	0.71 (32)	0.76 (28.3)
Eye point		Approx.	20 mm	
Dioptric adjustment		-3 - +1	1 dpt	

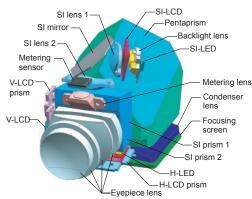
As with the EOS-1Ds Mark II, glass with a high refractive index is used for high performance. To match the higher viewfinder magnification (wider viewfinder coverage), the pentaprism and SI prism have been made larger, necessitating a change in the top

exterior cover of the camera's body.

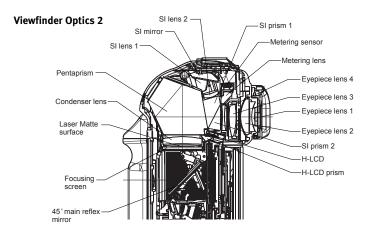
The lens type and glass selection have been changed to make the eyepiece lens larger. By having 4-lens elements in 4 groups for the eyepiece optics, flare is suppressed.



Viewfinder Optics 1

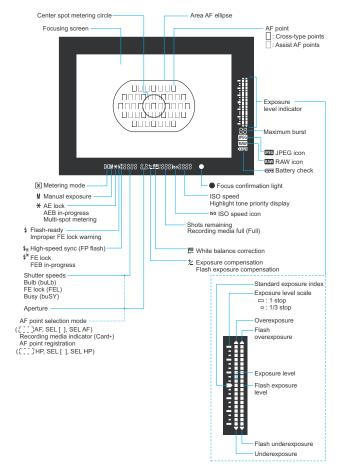


As with the EOS-1Ds Mark II, the superimposition display consists of the lead-in component, integrating the dichroic prisms (SI prism 1 and 2) with the pentaprism and the illumination (SI-LED), liquid-crystal (SI-LCD), and the eyepiece lens. Compared with the EOS-1D Mark III's dichroic mirror system, the dichroic prism system can have a more compact light path in the lead-in component. This contributes to a higher viewfinder magnification.



The exceptional legibility of the viewfinder means it is now a practical option to include a great quantity of information in the finder display.

Viewfinder Information



New UDMA Compatibility

UDMA (Ultra Direct Memory Access) is a new specification for CF cards (Compact Flash Specification Revision 4.0) to enable high-speed writing to the card. With a UDMA-compliant CF card, the data transfer speed is twice as fast as with the EOS-1D Mark III, and the writing speed is on par with the EOS-1D Mark III (and about 3 times as fast as the EOS-1Ds Mark II) even though the pixel count is twice as large.

ISO Speed

With a higher number of pixels in the same sensor dimensions, the pixel size is necessarily smaller than those of the EOS-1Ds Mark II. Nevertheless, the ISO speed range is the same as that of the EOS-1Ds Mark II with ISO 100 to 1600 and ISO extensions of 50 (L) and 3200 (H).* The ISO speed Safety Shift is enabled via C.Fn I-8-2. The ISO speed control value differs from that of the EOS-1D Mark III. Note that the maximum burst during continuous shooting will decrease if ISO speed safety shift, noise reduction for high ISO speeds (C.Fn II -2-1), or a high ISO speed is set. (The maximum burst during continuous shooting is displayed in the viewfinder.)

*Standard output sensitivity. Recommended exposure index.

EOS Integrated Cleaning System

The EOS-1Ds Mark III uses the EOS Integrated Cleaning System, a complete dust reduction system for reducing dust adhering to the imaging sensor, removing dust, and making dust spots less noticeable. The Self Cleaning Sensor Unit is a newly designed, dedicated unit optimized for the full-frame CMOS sensor. As with the EOS-1D Mark III, this unit has two thin piezoelectric elements that apply ultrasonic vibration to shake dust off the infrared absorption glass which is the outermost layer in front of the low-pass filter. The removed dust then sticks to the absorbent material lining the perimeter of the infrared absorption glass. Mechanisms such as the shutter and the mirror are manufactured in ways that reduce the generation of dust. The LPF uses grounding and a conduction process to discharge static electricity, minimizing dust adherence. And, to prevent the dust from entering the internal parts, the unit's outer periphery is sealed. The specifications of the unit's operating condition, forced termination condition, and Dust Delete Data acquisition and application are the same as with the EOS-1D Mark III.

Self Cleaning Sensor Unit Construction Diagram Absorbent Material Sealing materia Infrared-absorption Absorbent material



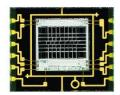
Drive

As with the EOS-1D Mark III, 6 drive modes (single shooting, high-speed continuous, low-speed continuous, 10-sec. self-timer, 2-sec. self-timer, and silent single shooting) are provided. The noise level of the single shooting and silent single shooting modes is the same as with the EOS-1D Mark III.

Having the same drive mechanism as the EOS-1D Mark III, the EOS-1Ds Mark III's maximum continuous shooting speed is 5 fps in both the One-Shot AF and AI SERVO AF modes. This rate is achieved with 8-channel reading, DDR-SDRAM (twice the capacity of the EOS-1Ds Mark II's), and Dual "DIGIC III" Image Processors. Continuous shooting speed can also be adjusted with C.Fn III-16 [Continuous shooting speed] as follows: High-speed continuous within 2 to 5 fps, and low-speed continuous within 1 to 4 fps.

Metering and Exposure Control

The metering optics have the metering lens and 63-zone metering sensor positioned at the rear of the pentaprism. The 19 AF points in the Area AF optimally match the metering sensor's zones.



Metering Sensor

The same 4 metering modes as in the EOS-1D Mark III are provided. Partial metering covers about 8.5% of the viewfinder area at the center, and spot metering about 2.4% at the center.

Because the metering area within the viewfinder is smaller than that of the EOS-1D Mark III, the algorithm has been optimized for the EOS-1Ds Mark III. However, the basic algorithm is the same as the EOS-1D Mark III's.

Metering Zones Evaluative/Center-weighted average metering Partial metering Spot metering *C.Fn I -7-1 enables AF point-linked spot metering

ISO bracketing is not provided in either the EOS-1Ds Mark III or the EOS-1D Mark III.

With the Ec-A, Ec-B, Ec-I, and Ec-L interchangeable focusing screens, only spot metering outside the center and center-weighted average metering is possible. Since the prism centers of these focusing screens are plainly transparent, an error will occur with evaluative metering, partial, and center spot metering.

Custom Functions

The Custom Functions are the same as the EOS-1D Mark III's. The Custom Function names, settings, numbers and so forth are the same. The only exceptions are C.Fn I-3 [Set ISO speed range], C.Fn I-8-2 [Safety shift: Enable (ISO speed)], C.Fn I-15-1 [Flash sync. speed in Av mode: 1/250 sec.], and C.Fn III-16 [Continuous shooting speed]. Either the setting values or control values have been changed to suit the EOS-1Ds Mark III's specifications.

Direct Printing and PictBridge

Besides adding PictBridge, as with the EOS-1D Mark III, two features shared with the EOS 40D have also been incorporated that work with all Canon printers that support PictBridge. First, printing effects such as B/W, Vivid, Brightness, and Adjust levels are now reflected in the image displayed. Only the Face Brightener and Red-eye Correction are not reflected in the displayed image. Second, with the trimming screen displayed, turning the Quick Control Dial will tilt the displayed image up to ±10 degrees in 0.5-degree increments.

All PictBridge-compatible Canon printers can now be used to set the Brightness, Adjust levels, Contrast, Color saturation, Color tone, and Color balance (except for Face Brightener and Red-eye Correction). Previously, this

Printing Effects Reflected in the Displayed Image



Tilt Correction



was possible only with the Canon PIXMA Pro9500 and Pro9000. Compatibility with Face Brightener and Red-eye Correction depends on the printer type.

When printing sRAW images through direct printing, the JPEG image will be used to make the print. The pixel count for the JPEG image and the sRAW image is the same. For RAW+JPEG images, the RAW image will be used to make the print. For sRAW+JPEG images, the JPEG image will be used to make the print. Note that if the JPEG image size is small, print size should be limited appropriately. Finally, a RAW image taken by another camera cannot be printed via direct printing. Since the RAW image processing method and imaging processor differ among cameras, compatibility cannot be ensured.

External Flash Control

The [Zoom] and [Wireless set.] flash functions have been added. These settings make it easier to view, summarize and set complicated wireless set-ups. As on the EOS 40D, one can now set all wireless flash settings with the camera's LCD monitor instead of the master Speedlite when the 580EX II is used. All external flash function settings and external flash Custom Functions settings other than these are the same as the EOS-1D Mark III's.

Zoom



Wireless Settings



Flash Function Settings (with 580EX II)

Flash function settings

With E-TTL II

With E-TTL II			
Item	Description		
Flash mode	E-TTL II / Manual flash / MULTI flash		
	1st curtain		
Shutter sync.	2nd curtain		
	Hi-speed		
FEB	-3 2 1 0 1 2+3		
Flash exp. Comp	-3 2 1 0 1 2+3		
E-TTL II	Evaluative		
L-11L11	Average		
Zoom	Auto/24/28/35/50/70/80/105 [mm]		
	Wireless func.: Enable/Disable		
	Master flash: Enable/Disable		
MC L	Channel: 1/2/3/4ch		
Wireless set.	Firing group: A+B+C/A:B/A:B C		
	A:B fire ratio: 8:1, 4:1, 2:1, 1:1, 1:2, 1:4, 1:8		
	Grp.C exp. comp: -321012+3		
Flash firing	Enable		
i iasii iiiiig	Disable		
INFO. Clear Speedlite settings			

With Manual Flash			
Flash mode	E-TTL II / Manual flash / MULTI flash		
Flash output 1/1281/641/321/161/81/4			
	1st curtain		
Shutter sync.	2nd curtain		
	Hi-speed		
Zoom	Auto/24/28/35/50/70/80/105 [mm]		
	Wireless func.: Enable/Disable		
	Master flash: Enable/Disable		
	Channel: 1/2/3/4ch		
Wireless set.	Firing group: A+B+C/A:B/A:B C		
	Group A output: 1/1281/1		
	Group B output: 1/1281/1		
	Group C output: 1/1281/1		
Flash firing	Enable		
i iasii iiiiig	Disable		
INI	O. Clear Speedlite settings		

With Multi Flash

110511			
Flash mode	Manual flash / MULTI flash / TTL		
Flash output	1/1281/641/321/161/81/41/2		
Frequency	1 - 199 Hz		
Flash count	, 1 - 100 times		
Zoom	Auto/24/28/35/50/70/80/105 [mm]		
	Wireless func.: Enable/Disable		
	Master flash: Enable/Disable		
	Channel: 1/2/3/4ch		
Wireless set.	Firing group: A+B+C/A:B/A:B C		
	Group A output: 1/1281/1		
	Group B output: 1/1281/1		
	Group C output: 1/1281/1		
Flash firing	Enable		
l lastrilling	Disable		
	INFO. Clear Speedlite settings		

 $^{^{\}ast}$ The flash output applies to 1/4 to 1/128 in whole-stop increments. (The display shows 1/2 to 1/128 in 1/3-stop increments.)

With TTL (With Flash C.Fn settings C.Fn-5-1)

Item	Description		
Flash mode	MULTI flash / TTL / AutoExtFlash		
Flash output	1/41/21/1		
	1st curtain		
Shutter sync.	2nd curtain		
	High-speed		
Zoom	Auto/24/28/35/50/70/80/105 [mm]		
Flash firing	Enable		
I lasti lilling	Disable		
INF	O. Clear Speedlite settings		

^{*} Flash output will be fixed at 1/1. (Displayed from 1/4 to 1/1.)

With external Speedlite set to autoflash

With Flash C.I if Settings C.I II-5-2)				
Item	Description			
Flash mode	TTL / AutoExtFlash / Man.ExtFlash			
FEB	-3 2 1 0 1 2+3			
Flash exp. Comp	-3 2 1 0 1 2+3			
Zoom	Auto/24/28/35/50/70/80/105 [mm]			
Flash firing	Enable			
i iasii iiiiig	Disable			
INFO. Clear Speedlite settings				

With external Speedlite set to M (With Flash C.Fn settings C.Fn-5-3)

Item	Description		
Flash mode	TTL / AutoExtFlash / Man.ExtFlash		
Zoom	Auto/24/28/35/50/70/80/105 [mm]		
Flash firing	Enable		
	Disable		
INFO. Clear Speedlite settings			

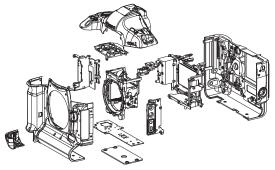
Design and Construction

Due to the large pentaprism, the top cover is a newly designed, dedicated cover having a bulge on the hot shoe area. It is 0.12 in./3mm taller than the EOS-1D Mark III and 2mm taller than the EOS-1Ds Mark II. As with the EOS-1Ds Mark II, the "Ds" and "Mark III" nameplates are gold-plated.

Magnesium Alloy Exterior



Exterior Covers and Internal Construction



The dimensions (W x H x D) of the EOS-1Ds Mark III are: $156 \times 159.6 \times 79.9 \text{mm/}6.1 \times 6.3 \times 3.1$ in. It is 3mm taller than the EOS-1D Mark III. The body-only weight is approximately 42.7 oz./ 1,210g, approximately 1.9 oz./55g heavier than the EOS-1D Mark III but 0.18 oz./5g less than a body-only EOS-1Ds Mark II. The difference in this case becomes more pronounced when the respective batteries are added in: 48.9 oz./1,385g

for the EOS-1Ds Mark II vs. 54.9 oz./ 1,555g for the Mark II, a difference of approximately 6 oz./170g.

Water- and dust-resistant construction is the same as the tight and thorough sealing of the EOS-1D Mark III.

Except for the 35mm full-frame CMOS sensor, large glass pentaprism, and full-frame Self Cleaning Sensor Unit, the internal components (including the shutter and the shutter-release mechanism) are the same as those of the EOS-1D Mark III.

The basic electronic components are the same as those of the EOS-1D Mark III.

However, certain boards have been optimized for the 35mm full-frame CMOS sensor. For example, due to the larger circuit, the Self

Location of Major Water-resistant Measures

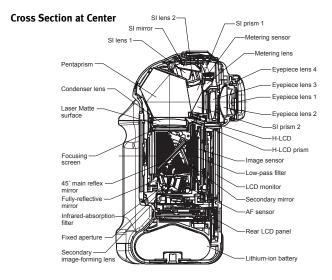
Parts Count

Item	1Ds Mk III	1Ds Mk II
Optics	35	30
Mechanical parts	674	628
Electrical parts	1557	1479
Circuit boards	41	43
Lead wires	162	22
Total (Official)	2323	2202
Screws and washers	349	311
Total	2672	2513

- * The shutter unit is counted as 1 part.
- * The DC/DC converter is counted as 1 part.
- * The E-ring is counted as a washer.
- * The official total excludes the screws and washers.

Cleaning Sensor Unit board has been split into two boards.

All parts comply with the RoHS (Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment) Directive.



If there is a small noise when the camera is shaken, it is the sound of the ball bearings in the camera orientation detection unit.

Power Source and Shooting Performance

Except for the number of possible shots (battery life), all the specifications are the same as those of the EOS-1D Mark III. Because the EOS-1Ds Mark III has the full-frame CMOS sensor and full-frame Self Cleaning Sensor Unit, battery life is shorter than that of the EOS-1D Mark III by about 20%. At 73°F/23°C, this is approximately 1,800 shots maximum, and at 32°F /0°C, approximately 1,400 shots maximum.

As with the EOS-1D Mark III, an automatic battery check is performed when the main switch is turned on. Battery level is indicated by one of six levels on the LCD panel. Current battery, remaining capacity (indicated in 6 levels with icon and in 1% increments), current shutter count with the battery since the battery recharge, and recharge performance can be checked. Power turns off after the set time (1, 2, 4, 8, 15, or 30 min.) of non-operation elapses. Even when set to [Off], the LCD monitor will turn off 30 min. after idle operation, but camera power does not turn off.

Live View Function

The professional Live View Function included in the EOS-1D Mark III and EOS 40D is part of the EOS-1Ds Mark III as well. In brief, Live View Function works either on the camera's LCD monitor or by remote (with EOS Utility). It makes it possible to place the camera in positions for which it would be difficult or impossible to look in the finder to check composition and verify exposure, depth of field or focus. It has grid display and aspect ratio display features.

During Live View Function with the EOS-1Ds Mark III, an icon is now displayed to indicate exposure simulation (when one presses the depth-of-field preview button or set C.Fn IV-16-1). Other than this, the Live View Function is the same as that of the EOS-1D Mark III. The EOS 40D enables AF and silent shooting during Live View Function, but these features are not provided by the EOS-1Ds Mark III because of a difference in shutter design.

During Live View Function, approximately 300 shots can be taken at 73°F/23°C or 230 shots at 32°F/0°C. In the EOS Utility Ver.2.2 disk to be bundled with the EOS-1Ds Mark III, a test-shooting feature and preview feature will be newly added to the Remote Live View Function.

In EOS Utility ver.2.1, users could adjust the white balance in Remote Live View Function using ambient light by looking at the real-time Live View Function image on the PC screen. They could then store the results on the camera with a single mouse click. However, users could not check the real-time Live View Function image for shots taken with the flash, so they had to check the finished shots, adjust the settings as needed

Test Shooting Window



and retake the shot. The new Test Shooting function offers users a simple procedure for adjusting white balance for flash photography, as follows:

- 1) Take a test shot using the flash. The Test Shooting window automatically opens showing the photographed image.
- 2) Set Click White Balance for a suitable location in the displayed image.
- 3) Take the test shot again using the flash.
 The results of step 2 are applied and stored in the camera and then applied to the test shooting results.

Check the resulting shot in the test window. The image in the Test Shooting window is updated each time one takes a test shot and is automatically deleted when the Test Shooting window is closed. However, one can save the image by clicking the Save button. One can also use this function for shots taken using ambient light.

Another new, Live View Function related feature is Quick Preview. Until now, image checking for remote shooting using EOS Utility has been achieved by transferring images to DPP (Digital Photo Professional) or ZoomBrowser EX/ImageBrowser, which launch automatically. As a result, there has always been a time lag of several seconds between shooting and image checking. The new Quick Preview function is Canon's response to user requests for a shortening of this time lag.

In EOS Utility ver.2.2, users can check the results of remote shooting immediately in a Quick Preview window that automatically appears after the shot is taken. The default window size is 600 x 428 pixels, but one can adjust the window to any size, including full-screen. Note that the Quick Preview window always shows the last shot one took. One can choose whether to show or hide the

Quick Preview Window



Quick Preview window by clicking the Show/Hide Quick Preview button in the Capture window. The Quick Preview function can be used by all cameras that are compatible with EOS Utility ver.2.2, even if Live View Function is not involved.

Shutter

The shutter unit is the same as that of the EOS-1D Mark III, with a durability of 300,000 cycles. Because of the larger frame size, flash sync is 1/250 sec. rather than the 1/300 sec. of the EOS-1D Mark III with EOS Speedlites.



Shutter Unit

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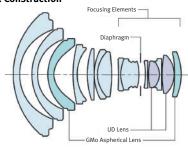
New EF 14 mm f/2.8L II USM Lens

The EF 14mm f/2.8L II USM is an ultra-wide-angle lens that was developed as the successor to the EF 14mm f/2.8L USM. Since the EF 14mm f/2.8L USM was first released in 1991, it has been widely used as a high-performance ultra-wide-angle lens by both professional and high-end amateur photographers. At the same time, there has been increasingly strong demand from the market for a lens with improved image quality, particularly in peripheral areas. To meet these demands, the EF 14mm f/2.8L II USM features completely redesigned optics that offer not only significant improvements in image quality, but features such as dust- and moisture-proofing, resulting in a high-performance lens that exceeds even the stringent requirements of professional users.

EF 14mm f/2.8L II USM



Optical Construction



Compared to the now-discontinued EF 14mm f/2.8L USM, the dimensions of the new lens are: maximum diameter, 88.5mm (+5mm), overall length 111.6mm (+8.6mm), and weight 645g (+85g). The minimum focusing distance is 0.2m and the maximum magnification is 0.15x.

Extenders EF 1.4x II and EF 2x II, and Extension Tubes EF 12 II and EF 25 II cannot be used with the lens. Also, the lens has no filter threads, so it cannot be used with the screw-in 250D, 500D, and 500 Close-up Lenses, as well as with Gelatin Filter Holders III and IV. The lens comes with a new, secure, spring mechanism lens cap, Lens Cap 14.

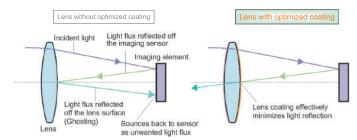
Features:

- High-performance L-series lens capable of ultra-wide-angle shots with a diagonal angle of up to 114°
- Uses 2 high-precision GMo aspherical lens elements (G3 is 40mm diameter aspherical lens element) to provide excellent correction for curvature of field, distortion and other aberrations, giving superb image quality over the entire image, and particularly in peripheral areas, that far exceeds previous models

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- Uses 2 UD lens elements to minimize lateral chromatic aberration to which wide-angle lenses are prone, achieving superb image quality with excellent resolution and contrast with little or no color bleed around the outline of the subject
- Lens coatings and lens disposition optimized to minimize the ghosting and flare that frequently occur when the lens is used with a digital camera

Flare and Ghosting Suppressed



- Waterproof and dustproof construction used in the mount, focus mode switch and focusing ring to prevent dust and moisture from getting into the lens, making it suitable for taking pictures even in harsh conditions
- EMD has circular aperture that produces beautiful out-of-focus images (bokeh)
- Rear focusing system, ring USM, high-speed CPU and improved AF algorithms for fast and quiet autofocusing
- Manual focusing enabled even during the AF mode (full-time mechanical manual focus)
- Focus mode switch has been given a shape that prevents it from being changed accidentally
- Equipped with constriction-type gelatin filter holder at the rear of the lens
- Uses a new type of specially designed lens cap (Lens Cap 14) that is both light and secure
- Optical system constructed using only glass which is lead-free

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VI. SOFTWARE

EOS Digital Solution Disk Ver.16 will ship with the EOS-1Ds Mark III camera at no additional cost. Each component is modified to bring EOS-1Ds Mark III compatibility to such things as RAW and sRAW files, as well as metadata.

The new EOS Utility, ver.2.2, has 2 enhancements to Live View Function, a Test Shooting function and a Quick Preview function. Both are discussed in the Live View Function section of this paper.

DPP (Digital Photo Professional) is upgraded from version 3.1 to 3.2. The 2 main additions are the lens aberration correction function and the brightness warning display function.

Lens Aberration Correction Function

While lens optics are designed to achieve the best possible balance in minimizing different types of aberrations and defects, these do remain, even if only minimally, as in reality it is impossible to eliminate aberrations completely. The new "Lens Aberration Correction Function" provides correction by way of image processing to handle divergences from ideal imaging.

Aberration correction is achieved by re-processing the image, combining the following information with the photographed RAW image:

- 1) The optical data for the lens:
 - The DPP software includes data containing lens IDs and optical characteristics of each lens
- 2) Lens information for the lens used (lens ID):
 - Automatically recorded to the supplementary information for photographed RAW images
- 3) The focal length information when shots are taken: Automatically recorded to the supplementary information for photographed RAW images
- 4) The distance information when shots are taken:

 Automatically recorded to the supplementary information for photographed RAW images.

Note: some of the specifications for recording the supplementary RAW image information in 2), 3) and 4) vary depending on the EOS Digital camera used.

There are 4 factors that this function can correct:

1) Peripheral illumination:

Corrects peripheral light, which declines as one moves away from the center of the image, by increasing brightness at the image periphery so that brightness is uniform over the entire image

2) Distortion:

Corrects images where shape relationships are disrupted so that they appear as they should

3) Chromatic aberration:

Corrects color fringing that arises around the image periphery

4) Color blur:

Corrects the blue and red color blurring that can occur at the edges of very bright areas in images

This innovative technology ties together the lens information, camera lens system information and image design in a comprehensive way that could be achieved only by a truly comprehensive camera manufacturer.

At present, 29 EF lenses (lenses with built-in lens ID, focal length and distance information) are supported.

Lenses Compatible with Lens Aberration Correction Function

EF 14mm f/2.8L USM	EF 14mm f/2.8L II USM	EF 20mm f/2.8 USM
EF 24mm f/1.4L USM	EF 28mm f/1.8 USM	EF 35mm f/1.4L USM
EF 50mm f/1.2L USM	EF 50mm f/1.4 USM	EF 85mm f/1.2L USM
EF 85mm f/1.2L II USM	EF 100mm f/2.8 Macro USM	EF 16-35mm f/2.8L USM
EF 16-35mm f/2.8L II USM	EF 17-35mm f/2.8L	EF 17-40mm f/4L USM
EF 24-70mm f/2.8L USM	EF 24-105mm f/4L IS USM	EF 28-70mm f/2.8L
EF 28-135mm f/3.5-5.6 IS USM	EF 28-200mm f/3.5-5.6 USM	EF 28-300mm f/3.5-5.6L IS USM
EF-S 55-250mm f/4-5.6 IS	EF 100-400mm f/4.5-5.6L IS USM	EF-S 60mm f/2.8 Macro USM
EF-S 10-22mm f/3.5-4.5 USM	EF-S 17-55mm f/2.8 IS USM	EF-S 18-55mm f/3.5-5.6 USM
EF-S 18-55mm f/3.5-5.6 II USM	EF-S 18-55mm f/3.5-5.6 IS	

^{*}Also usable for RAW images taken with extender mounted on supported lens.

Depending on the EOS Digital camera on which the lens is mounted, there are 2 modes of correction using DPP ver.3.2. In the latest models released in 2007 (EOS-1Ds Mark III, EOS 40D and EOS-1D Mark III), the lens ID and the focal length and distance information are recorded as supplementary information in photographed RAW images. As a result, these cameras meet all the requirements for aberration correction. To use aberration correction on these 3 models, simply check the boxes for the factors to be corrected in the [Lens aberration correction] window.

On the EOS-1D Mark II N, EOS-1Ds Mark II, EOS-1D Mark II, EOS-1Ds, EOS-1D, EOS 5D, EOS 30D and EOS Digital Rebel XTi/400D DIGITAL, the lens ID and focal length are recorded as supplementary information in photographed RAW images, but the distance information is not recorded. On these cameras, when one checks the boxes in the [Lens aberration correction] window for the factors to be corrected in photographed RAW images, aberration is corrected on the assumption that the distance is set to infinity.

To correct aberration in DPP, open the [Lens aberration correction] window (edit window or edit window tool palette [NR/Lens] tab> click the [Tune] button) and check the boxes for each of the 4 correction factors to be corrected. The image is then corrected and the

results are applied in real time to the image displayed in the [Lens aberration correction] window. One can then check the effects of distortion and peripheral illumination on the entire displayed image. One can also enlarge a section of the image to check for chromatic aberration or color blur by clicking in the section to be checked. That section then appears enlarged to 200% in the top right corner of the [Lens aberration correction] window, allowing one to check the effects in detail.

If one is not happy with the results of the corrections performed by DPP, one can use the sliders for the different correction factors or the shooting distance to make additional adjustments. Also, one can correct red chromatic aberration with the [R] slider of the [Chromatic aberration] or blue chromatic aberration with the [B] slider.

(Note that correcting peripheral illumination may result in noise appearing around the image periphery. One may be able to alleviate this noise by using the DPP noise reduction functions (luminance noise or chrominance noise reduction). In some images, using distortion correction may cause areas around the image periphery to be deleted. Also occasionally, color blur correction may have no discernible effect. Finally, color blur correction may also reduce color saturation in some images.)

After completing the corrections, click the [OK] button to close the [Lens aberration correction] window. At that point, the corrections are applied to the image in the edit window and the corrections (ON or OFF) also appear in the tool palette.

Brightness Warning Display Function

The brightness warning display function has also been added. It is useful in preventing excessive adjustment and in checking white flare or shadowing in images. One can use the

[Preferences] window to specify separate settings for highlights and shadows in the warning display range settings. If one selects the [Highlight] or [Shadow] setting in the [View] menu, highlights that exceed the specified range are displayed in red and shadows that exceed the range are displayed in blue in the image in the Edit or Edit Image window.

[NR/Lens] Tab in the Tool Palette



Lens Aberration Correction Window



Warning Display Settings in the Preferences Window



Edit Window (with Warnings Displayed)



Additional Changes in DPP

Another new function that has been developed links DPP with the new "Easy-PhotoPrint EX" printing software for inkjet printers. This allows the transfer of RAW images selected in DPP directly to Easy-PhotoPrint EX so that RAW images can be printed simply and at high quality. The specifications and procedures for using the new software are the same as the previous "Easy-PhotoPrint" software.

A [View images at high speed (moiré reduction off)] option has been added to the [High quality] display mode. This will prove useful for those who want slightly faster image display when false color reduction is not needed, because they do not use false color reduction

when viewing images in the Edit or Edit Image window.

The [Preferences] window has been amended to include a function for reducing the "block noise" and "mosquito noise" that particular affects JPEG images when RAW images are converted and saved in JPEG format. This makes it possible to improve the image quality particularly when high compression rates are used.



DPP features:

- RAW image viewing/processing/editing software aimed primarily at amateur and professional users who mostly shoot RAW images
- High-speed processing of RAW images
- Support for RAW images from almost all EOS Digital camera models
- Viewing and editing of JPEG and TIFF images
- · Links with Canon's EOS software
- · Window displays tailored to professional workflows
- Extensive range of image editing functions
- Real time display of image adjustments and comparison displays of edits
- Faithful, high-quality printing using links with Canon inkjet printers
- 3 printing style specification functions
- RAW image conversion and saving
- · Batch processing of large numbers of RAW images

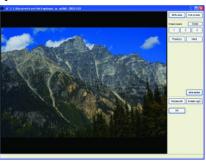
In versions up to DPP ver.3.1, thumbnail images that had been dragged into a different sequence in the main window reverted to the original display sequence when DPP was shut down. In ver.3.2, this has been improved so that the user's thumbnail sequence is retained. With the addition of a [Retain sort order] checkbox in the [Preferences] window, DPP has been improved so that the current thumbnail sequence is retained when DPP is shut down. By clearing the [Retain sort order] checkbox, users who prefer the ver.3.1 specifications can revert to the previous system (in which the original sequence is restored when DPP shuts down).

Preferences Window



The Quick Check tool function has been improved with the addition of an [Information] button that displays the Shooting Information window; the control buttons have been rearranged to match more closely the way they are actually used. Also, whereas the only enlargement ratio available in the enlarged display was 50% in ver.3.1, the specifications have now been improved so that either 50% or 100% can be selected in the [Preferences] window.

Quick Check Window



Picture Style Editor

Picture Style Editor Ver.1.1 is also included on Digital Solution Disk Ver.16. In brief, Picture Style Editor is software that allows users to create their own Picture Style files by selecting and loading a sample RAW image and then adjusting the image characteristics based on one of the existing Picture Style settings (Standard, Portrait, Landscape, Neutral or Faithful, but not Monochrome). The created Picture Style file can then be registered in the camera using EOS Utility, or used in the DPP or RAW Image Task applications.

There is only one change in Picture Style Editor from ver.1.0: the range of sample images available for adjustment has been expanded to include RAW images shot on all EOS Digital cameras (EOS D30 to EOS-1Ds Mark III. This includes EOS D6000 and D2000 RAW images that were converted using .CR2 Converter to RAW images with the ".CR2" extension.) There are no functional changes.

Note that there are some cameras that are not supported by and cannot be used with Windows Vista: the EOS-1Ds, EOS-1D, EOS 10D, EOS Digital Rebel/300D DIGITAL, EOS D60 and the EOS D30. Also, while the following cameras are compatible with Windows Vista for 32-bit systems, they are not compatible with Vista for 64-bit systems: the EOS-1D Mark II N, EOS-1Ds Mark II, EOS-1D Mark II, EOS 5D, EOS 20D and the EOS Digital Rebel XT/350D DIGITAL.

VII. SPECIFICATIONS

Type of Camera

Type: Digital AF/AE SLR

Recording Media: CF Card Type I and II, SD/SDHC Memory Card (1 slot each), and/or External media (USB v.2.0 hard drive, via optional Canon Wireless File Transmitter

WFT-E2A), compatible with UDMA-compliant CF cards, and SDHC SD cards

Image Format: 1.42 x 0.94 in./36.0 x 24.0mm (full-frame sensor)

Compatible Lenses: Canon EF, TS-E, and MP-E lenses (except EF-S lenses)

Lens Mount: Canon EF mount

Lens Focal Length Conversion Factor: 1.0x

Image Sensor

Type: Full-frame, high-sensitivity, high-resolution, single-plate, CMOS sensor

Effective Pixels: Approx. 21.10 megapixels
Total Pixels: Approx. 21.90 megapixels
Aspect Ratio: 3:2 (Horizontal: Vertical)
Color Filter System: RGB primary color filters

Low-pass Filter: Fixed position in front of the CMOS sensor

EOS Integrated Cleaning System: (1) Self Cleaning Sensor Unit, (2) Dust Delete Data,

(3) Manual Sensor Cleaning

Recording System

Recording Format: DCF 2.0 (Exif 2.21): JPEG, RAW and RAW+JPEG simultaneous recording possible. Multiple options for recording images on two memory cards, and onto compatible external USB hard drives (via optional Wireless File Transmitter WFT-E2A) **Image Compression:** JPEG, JPEG+RAW, RAW (Canon CR2)

File Size: (1) JPEG/Large: Approx. 6.4MB (5,616 x 3,744); (2) JPEG/Medium 1: Approx. 5.2MB (4,992 x 3,328); (3) JPEG/Medium 2: Approx. 3.9MB (4,080 x 2,720); (4) JPEG/Small: Approx. 2.2MB (2,784 x 1,856); (5) RAW: Approx. 25.0MB (5,616 x 3,744);

(6) sRAW: Approx. 14.5MB (2,784 x 1,856)

Folders: Can be manually created by user, and freely selected for subsequent images **File Numbering:** (1) Continuous numbering (2) Auto reset (3) Manual reset (the image numbering is reset to 0001, a new folder is created automatically)

Color Space: Selectable between sRGB and Adobe RGB

Picture Style: Six preset Picture Style settings plus three user-defined custom Picture Style settings with individual adjustments for Sharpness, Contrast, Saturation, Color tone; Filter effect, Toning effect for black & white images

Interface: USB 2.0 Hi-Speed, mini-B port. NTSC/PAL for video output

White Balance

Settings: Auto, Daylight, Shade, Cloudy, Tungsten Light, White Fluorescent Light, Flash, five Custom WB settings (1-5), user-set Color Temperature $(2,500\sim10,000K)$, five Personal White Balance PC-1 to PC-5

Auto White Balance: Auto white balance, taken from imaging sensor

White Balance Correction: White balance bracketing: Three consecutive images, Up to +/- 3 levels in 1-step increments; White balance shift: blue/amber bias and/or magenta/

green bias +/- 9 levels; manually set by user

Viewfinder

Type: Eve-level SLR with fixed pentaprism

Coverage: Approx. 100% horizontally and vertically **Magnification:** 0.76x (-1 dpt with 50mm lens at infinity)

Eyepoint: Approx. 20mm

Dioptric Adjustment Correction: 3.0 to +1.0 diopter

Mirror: Quick-return half mirror (Transmission: reflection ratio of 37:63)

Viewfinder Information: AF (AF points, focus confirmation light, point selection mode, registration), Exposure (metering mode, spot metering area, shutter speed, aperture, manual exposure, AE lock, ISO speed, exposure level, exposure warning), Flash (flash ready, high-speed sync, FE lock, flash exposure level), Image (JPEG recording, RAW recording, shots remaining, maximum burst, white balance correction, memory card information), Battery check

Depth-of-Field Preview: Enabled with depth-of-field preview button; possible in Live

View Function

Evepiece Shutter: Built-in

Autofocus

Type: TTL-AREA-SIR AF-dedicated CMOS sensor

AF points: 45-point (19 high-precision cross-type AF points plus 26 Assist AF points)

AF Working Range: EV -1 ~18 (ISO 100 at 73°F/23°C)

Focusing Modes: Autofocus (One-Shot AF, Predictive AI Servo AF), Manual Focus (MF) AF Point Selection: Automatic selection; Manual selection: 19 AF points, or only inner

9 AF points (C.Fn III-9-1), or outer 9 AF points (C.Fn III-9-2)

Selected AF Point Display: Superimposed in viewfinder and on LCD panel

AF-assist Beam: None. Emitted by EX-series Speedlite or optional ST-E2 Speedlite

Transmitter

Exposure Control

Metering Modes: 63-zone TTL full aperture metering; (1) Evaluative metering (linked to all AF points); (2) Partial metering (approx. 8.5% of viewfinder); (3) Spot metering (approx. 2.4% of viewfinder): Center spot metering, AF point-linked spot metering (C.Fn. I-7-1), Multi-spot metering (max. 8 spot metering entries); (4) Center-weighted average metering Metering Range: EV 0-20 (ISO 100 at 73°F/23°C with EF 50mm f/1.4 USM lens, ISO 100) Exposure Control Systems: Program AE (shiftable), Shutter speed-priority AE, Aperturepriority AE, E-TTL II program AE (Evaluative flash metering, Averaged flash metering), Manual, Bulb

ISO Speed Range: Equivalent to ISO 100–1600* (in 1/3-stop or whole stop increments), ISO speed can be expanded to ISO 50 and 3200 (via C.Fn I-3)

Exposure Compensation: Exposure Compensation (user-set): up to +/-3 stops in 1/3- or 1/2 stop increments; Auto Bracketing (AEB): 3 shots, up to +/- 3 stops, in 1/3 or 1/2 stop increments, in all exposure modes. Sequence can be changed via C.Fn I-5 **AE Lock:** Auto: Applied in One-Shot AF mode with evaluative metering when focus is achieved; Manual (user-set): By AE lock button in all metering modes

Shutter

Type: Vertical-travel, mechanical, focal-plane shutter with all speeds electronically controlled **Shutter Speeds:** 1/8000 to 30 sec. (1/3-, 1/2- or 1-stop increments), X-sync at 1/250 sec. (with EOS dedicated external Speedlites; 1/250 maximum with other shoe-mount flashes, and 1/60th-1/250th with studio strobes*)

Shutter Release: Soft-touch electromagnetic release

Self-Timer: 10 sec. delay, 2 sec. delay **Remote Control:** Canon N3 type terminal

External Speedlite

EOS External Flash or Dedicated Speedlite: E-TTL II autoflash with all EX Series Speedlites **PC Terminal:** Provided; accepts third-party flash units with sync line voltages up to 250V maximum

Drive System

Drive Modes: Single, silent, high-speed continuous (approx. 5 fps), low-speed continuous (approx. 3 fps), 10- or 2-sec. self-timer

Continuous Shooting Speed: Approx. 5 fps (at a shutter speed of 1/500 sec. or faster in all recording modes)

Max. Burst During Continuous Shooting: JPEG: approx. 56 frames; RAW: approx. 12 frames RAW+JPEG: approx. 10 frames (Large/Fine)

LCD Monitor

Type: TFT color, liquid-crystal monitor

Monitor Size: 3.0 in., diagonal Pixels: Approx. 230,000 pixels

Coverage: Approx. 100%

Brightness Control: 7 levels provided

^{*} Standard output sensitivity. Recommended exposure index.

^{*} maximum sync speed with studio strobes will depend upon flash characteristics and connection method; testing is encouraged to verify fastest possible sync speed with specific studio flash equipment.

Playback

Image Display Format: Single image, 4-image index, 9-image index, Jump, AF point, Magnified zoom (approx. 1.5x to 10x), Brightness or RGB Histogram, Auto rotate, Rotate; Live View Function: view image before shooting on LCD monitor; live histogram and live simulation of exposure level possible with C.Fn IV-16-1

Highlight Alert: In the single image display and (INFO) display, over-exposed highlight areas will blink

Image Protection and Erase

Protection: Single image, all images in a folder, or all images in the memory card can be protected or cancel the image protection

Erase: Single image, all images in a folder, all images in the memory card or checkmarked images can be erased or unprotected

Direct Printing from the Camera: Possible with compatible PictBridge-enabled printers **Compatible Printers:** CP and SELPHY Compact Photo Printers, PIXMA Photo Printers and PictBridge compatible printers (via USB Interface Cable IFC-200U, included with camera kit) **Settings:** Print quantity, style (image, paper size, paper type, printing effects, layout), trimming, tilt correction

Sound Recording

Recording Method: Via built-in microphone at rear of camera body; activated by pressing recording button on camera. Sound file attached to image file on memory card

File Format: WAV

Recording Time: Max. 30 sec. per recording

Menus

Menu Categories: (1) Shooting (2) Playback (3) Setup, (4) Custom Function/My Menu LCD Monitor Languages: 18 (English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Simplified/Traditional Chinese, Korean, Japanese)

Power Source

Battery: One dedicated lithium-ion battery pack LP-E4. AC power can be supplied via the AC Adapter Kit ACK-E4 (included)

Number of Possible Shots: At 73°F/23°C: Approx. 1,800 shots; At 32°F/0°C: Approx. 1,400 shots

The above figures apply when a fully-charged Battery Pack LP-E4 is used

Battery Check: Automatic, displayed in six levels. Precise readout of percentage remaining, shots taken since last charge, calibration recommended, and approx. remaining battery life are displayed with Battery Info menu setting.

Power Saving: Provided. Power turns off after 1, 2, 4, 8, 15, 30 min.

Back-up Battery: One CR2025 lithium battery

Dimensions and Weight

Dimensions (W) x (H) x (D): 6.1 x 6.3 x 3.1 in./156 x 159.6 x 79.9mm **Weight (Body only):** 42.5 oz./1,205g

Operating Conditions

Operating Temperature Range: 32–113°F/0–45°C

Operating Humidity Range: 85% or less

• All the specifications above are based on Canon's Standard Test Method.

• The camera's specifications and physical appearance are subject to change without notice.

• TFT monitor images shown in the white paper are simulated.

VIII. COMPARISON CHART

EOS-1Ds Mark III vs. EOS-1Ds Mark II Comparison Chart

	EOS-1Ds Mark III	EOS-1Ds Mark II	Comments
Resolution & Sensor			
Recording pixels	21.1 million	16.7 million	
Full resolution	5616 x 3744	4992 x 3328	Highest-resolution AF digital SLR
Photoshop file size	approx. 60MB	approx. 48MB	in world (as of August, 2007); unprecedented large file sizes
Sensor type		non-produced)	unprecedented large me sizes
Sensor size	,	— 24 x 36mm	Fatirals and CMOC to the alams
Lens conversion factor		ne (1x)	Entirely new CMOS technology similar to EOS-1D Mark III
			Similar to 200 15 mark in
ISO sensitivity range	(50) 100 -	- 1600 (3200)	
Performance		4.0.6	
Maximum fps rate	5.0 fps	4.0 fps	Fast shooting speed;
Maximum frames in a burst	56 (full-resolution JPEGs, level-8 fine) 12 (RAW; full-resolution)	32 (full-resolution JPEGs, fine) 11 (RAW; full-resolution)	greater burst rate
Shutter speed range	30 ~ 1	/8000 sec.	
Fastest flash sync speed	1	/250	Mark III shutter: highest durability rating ever in an SLR
Shutter durability	300,000 exposures	200,000 exposures	rating ever in an SER
Continous mirror lock-up	Yes (mirror down with SET)	1	Easy continuous mirror-up
Image Quality			<u> </u>
			Mark III: two highest-speed
Processor	Dual "DIGIC III"	DIGIC II	processor units
Analog to Digital conversion	14-bit (16,384 tones/channel)	12-bit (4,096 tones/channel)	Smoother changes in tones
Highlight Tone Priority	Yes	_	Superb control of bright areas
Color, Contrast & Sharpness adjustments	Canon Picture Style	Parameters + Color Matrix	Broader range of in-camera image control
Integrated cleaning system	Yes	_	Built-in dust removal system
High-ISO noise reduction	Yes	_	Further noise-reduction option
Custom White Balance	5 settings possible	1 setting	Far more flexibility
White Balance Shift	Yes (9 steps to alter WB)		Outstanding fine-tuning ability
AF System			
Number of AF points	45 (19 are cross-type)	45 (7 are cross-type)	Entirely new Mark III AF system
User-selectable AF points	19	45	Faster navigation to set AF points
High-precision points off-center	Yes (all 19 user-select pts.)	_	Outer AF points more efficient
AF Microadjustment	Yes	_	Fine-tune AF if needed
	163	_	Tille-tulle Al II lleeded
Metering System	(2)	24	
Evaluative metering	63 zones	21 zones	Finer segmentation; superior shot-to-shot consistency
E-TTL II flash metering	63 zones	21 zones	Shot-to-shot consistency
Computer Interface			
Direct-connection type	USB 2.0 Hi-Speed	IEEE 1394 ("Firewire")	Same speed; more extensive computer compatibility with USB
Direct printing	Yes (PictBridge, plus new Canon print effects features)	Yes (standard PictBridge)	
Recording Media			
Compatible cards	CF and/or SD cards (2 slots)	CF and/or SD cards (2 slots)	SD slot – now SDHC compliant
UDMA hi-speed compatible CF	Yes	=	Much higher CF card speed
Automatic switch from card 1 to 2	Yes	_	Variety of user-settings available
External hard drive compatible	Yes	-	Another high-capacity option; requires optional WFT-E2A
RAW + JPEG recording	Possible to record RAW on one card, JPEG on other	RAW + JPEG always on same card(s)	Mark II N – easier organization of images before downloading
User-set file name prefix	Yes (first four characters)	=	Mark II N: can be set on menu
Separate image type recording	Yes	_	Any file type on one card; different type on other card
LCD Monitor & Playback			
LCD monitor size	3.0 inches (diagonal) 230,000 pixels	2.0 inches (diagonal) 230,000 pixels	Largest LCD monitor on market (as of August, 2007)
Ultra-wide LCD view angle	Yes		View up to 70° angle
Live View shooting	Yes	-	Excellent for studio or remote
Live View to computer	Yes (via USB or Wireless)	_	Live View can work remotely

EOS-1Ds Mark III vs. EOS-1Ds Mark II Comparison Chart (cont.)

	EOS-1Ds Mark III	EOS-1Ds Mark II	Comments
Wireless Transmitter			
Wireless transmitter unit	WFT-E2A (optional)	WFT-E1A (optional)	Far smaller, more integrated wireless unit; more functions
Transmission modes	FTP, PTP, HTTP	FTP only	Remote camera control and viewing camera using web browser now possible
USB host port	Yes	-	External hard drive useable GPS compatibility
Set-up	Wizard-based	Conventional FTP	Much easier set-up for Mark III
Transmitter power supply	Uses camera battery	Separate BP-511	No additional battery needed
Other			
Camera control	Dials plus SET button	Hold button, turn dial	Much easier camera operation
Silent mode	Available on-camera	via Personal Function only	Easy access to quiet shooting
Speedlite control from camera	Camera's menu controls 580EX II flash	-	Quick flash control, using camera's menu
Custom Functions	57 (all in-camera)	20, plus 27 Personal Functions	No need to upload anything from computer; broadest EOS range of in- camera control
Battery type	New Canon LP-E4 Lithium Ion	Canon NP-E3 (NiMH)	Same lightweight battery pack as EOS-1D Mark III
Battery life	Up to 1,800 shots (at 68°F)	Up to 1,200 shots (at 68°F)	
Precise battery read-out	Yes	-	Battery Info on camera menu
Weight (including battery)	48.8 oz. (body only)	54.7 oz. (body only)	Mark III: noticeably lighter
Approx. price	\$7,999 (body only)	\$7,999 (body only)	Prices at time of initial launch

=significant new feature or competitive advantage

All referenced product names, and other marks, are trademarks of their respective owners.

Specifications and availability are subject to change without notice.

Pricing subject to change at any time. Actual prices are determined by individual dealers and may vary.

VII. COMPARISON CHART 36

IX. CONCLUSION

When it was introduced, Canon, with complete justification, called the EOS-1Ds Mark II "The Absolute Pinnacle of DSLR Design and Performance." Now the pinnacle has been raised. Technological advances have continued to come at a furious rate, even as the digital age of photography has matured, and it should surprise no one that Canon is able to build a better flagship than it did a few years ago. Nonetheless, there are many aspects of the EOS-1Ds Mark III that are astonishing. For example, the 16.7-megapixel, 4 fps EOS-1Ds Mark II it succeeds is still the leader in its class. On the same full-size sensor plate, Canon now has 21.1 megapixels that, although they are smaller than those of the EOS-1Ds Mark II, record a finer image with 14-bit depth and vastly greater control possibilities. At 5 fps, the EOS-1Ds Mark III fires off its enormous image files as fast as most 10 megapixel cameras can make 12-bit files. This is one camera that can excel in studios, sporting venues, and the farthest and most remote reaches of the earth. Its files can generate prints and magazine layouts equally remarkable for their great size and superlative quality. No other camera can make such a claim credibly.

Viewed in terms of its resolution alone, the EOS-1Ds Mark III seems to compete with the medium format digital backs that cost somewhere between more and much more. At this point, many even have less resolution than the EOS-1Ds Mark III. But their cumbersome handling and their very limited and expensive systems, especially in comparison with the Canon EOS System, mean that they are capable of functioning in just a very small portion of all the photographic situations in which the EOS-1Ds Mark III excels.

Consider, too, the question of continuity, a matter of considerable relevance when the purchase of an \$8,000-or- more camera is on the table. Where the EOS-1Ds Mark III is completely compatible with virtually all of the vast EOS System, and can be expected to remain compatible—and supported—for decades to come (note the current software support for the D6000 and D2000), today's medium format digital backs often do not fit even recent products from the same manufacturer. Will a newly-purchased component be compatible with same-brand software and hardware in the not-too-distant future? Betting on, and investing in, the EOS-1Ds Mark III is a sure thing.

When Canon shows a diagram of its DSLR family, it has co-equals at the top of the range, the EOS-1D Mark III with a 1.3x sensor, 10.1 megapixels and a breathtaking 10 fps, matched with the EOS-1Ds Mark III, with its full-frame sensor, 21.1 amazing megapixels and a not-to-be-believed 5 fps for that file size. Both have Live View Function, the Self Cleaning Sensor Unit, the endless control and customization options, the high ISOs and low noise and the super-rugged construction. Both epitomize professional hardware. Choosing between them is really a matter of degree. Both have extraor-

IX. CONCLUSION 37

dinary speed and image quality. For the photographer for whom the highest speed is an absolute must, the EOS-1D Mark III is the camera of choice. For photographers for whom the finest possible image quality in a complete package of professional excellence is the goal, there is the EOS-1Ds Mark III. There is nothing else.

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